**THOMSON** MULTI MEDIA

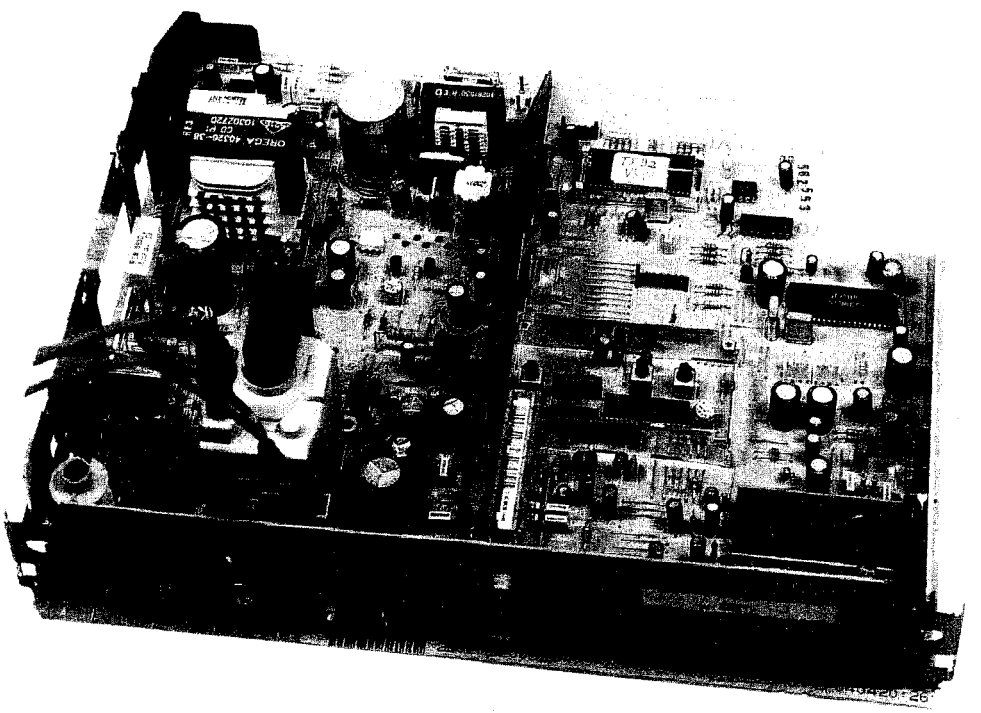
*Brandt* FERGUSON **NORDMENDE** SABA **TELEFUNKEN** **THOMSON**

TV

# SERVICE MANUAL
# DOCUMENTATION TECHNIQUE
# TECHNISCHE DOKUMENTATION
# DOCUMENTAZIONE TECNICA
# DOCUMENTACION TECNICA

# TX92F

TX92 F0C7715020
F0C7715054
F0C7725020
F6C701501D
F6C7015010
F6C7015020
F6C7015064
F6C7025010
F6C3025043
F6C3025060
F6C3025063
F6C3025073
F6H3015064
F6H3025060



| | |
|---|---|
| **WARNING :** | *Before servicing this chassis read the safety recommendations.* |
| **ATTENTION :** | *Avant toute intervention sur ce châssis, lire les recommandations de sécurité.* |
| **ACHTUNG :** | *Vor jedem Eingriff auf diesem Chassis, die Sicherheitsvorschriften lesen.* |
| **ATTENZIONE :** | *Prima di intervenire sullo chassis, leggere le norme di sicurezza.* |
| **IMPORTANTE :** | *Antes de cualquier intervención, leer las recomendaciones de seguridad.* |

⚠ Indicates specially selected or critical safety components and identical components should be used for there replacement. This is necessary in order to maintain the operational safety of the receiver.

Le remplacement des éléments de sécurité (repérés avec le symbole ⚠ ) par des composants non homologués selon la Norme CEI 65 entraine la non-conformité de l'appareil. Dans ce cas, la responsabilité du fabricant n'est plus engagée.

Wenn Sicherheitsteile (mit dem Symbol ⚠ gekennzeichnet) durch nicht normengerechte Teile ersetzt werden, erlischt die Haftung des Herstellers.

La sostituzione degli elementi di sicurezza (marcati con il segno ⚠ ) con componenenti non omologati secondo la norma CEI 65 comporta la non conformitá dell'apparecchio. In tal caso è "esclusa la responsabilità " del costruttore.

La sustitución de elementos de seguridad (marcados con el simbolo ⚠ ) por componentes no homologados segun la norma CEI 65, provoca la no conformidad del aparato. En ese caso, el fabricante cesa de ser responsable.

## MEASUREMENT CONDITIONS - CONDITIONS DE MESURES - MESSBEDINGUNGEN CONDIZIONI DI MISURA - CONDICIONES DE MEDIDAS

**RECEIVER :** UHF input level : 1 mV, test bar pattern :
- PAL, I standard, 100% white.

Scart input level : 1.00 Vpp, test bar pattern.

Programme PR 01.
Customer controls : Contrast, brigtness and colour set at mid point and sound at minimum.
All DC voltages are measured with a digital meter between ground and the reference point.

**RECEPTEUR :** En UHF, niveau d'entrée 1 mV mire de barres
- SECAM. Norm L, Blanc 100%.

Par la prise Péritélévision, niveau d'entree 1 Vcc, mire de barres.

Couleur, contraste, lumière à mi-course, son minimum.
Programme affecte PR 01.

Tensions continues relevees par rapport à la masse avec un voltmètre numérique.

**EMPFÄNGER :** Bei UHF Eingangspegel 1 mV, Farbbalken :
- PAL, Norm G, Weiss 100%.

Über die Scartbuchse : Eingangspegel 1 Vss, Farbbalken :

Farbe, Kontrast, Helligkeit in der Mitte des Bereichs, Ton auf Minimum.
Zugeordnetes Programm PR 01.

Gleichspannungen mit einem digitalen Voltmeter zur Masse gemessen.

**RICEVITORE :** In UHF, livello d'entrata 1 mV, monoscopio per barre :
- PAL, norma G, bianco 100%.

Per la pressa SCART, livello d'entrata 1 Vcc, monoscopio per barre.

Colore, Contrasto, Luce a metà corsa, Suono minimo.
Programma designato PR 01.

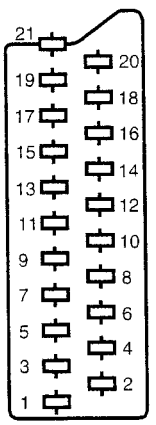
Tensioni continue rilevate rispetto alla massa con un voltametro numerico.

**RECEPTOR :** En UHF, nivel de entrada 1 mV, mira de barras :
- PAL, norma G, blanco 100%.

Por la toma Peritelevision, nivel de entrada 1 Vpp mira de barra.

Color, Contraste, luz a mitad de carrera, Sonido mínimo.
Programa afectado PR 01.

Tensiones continuas marcadas en relacion a la masa con un voltímetro digital.




**NOTE :** (MAIN) ... etc. identifies each pcb module.

**NOTE :** (MAIN) ... etc. repères des platines constituant l'appareil.

**HINWEIS :** (MAIN) ...usw. Kennzeichnungen der Platinen, aus denen das Gerät zusammengesetzt ist.

**NOTA :** (MAIN) ... ecc. indicazioni delle piastre che costituiscono l'apparecchio.

**NOTA :** (MAIN) ... etc. marcas de las placas que constituyen el aparato.

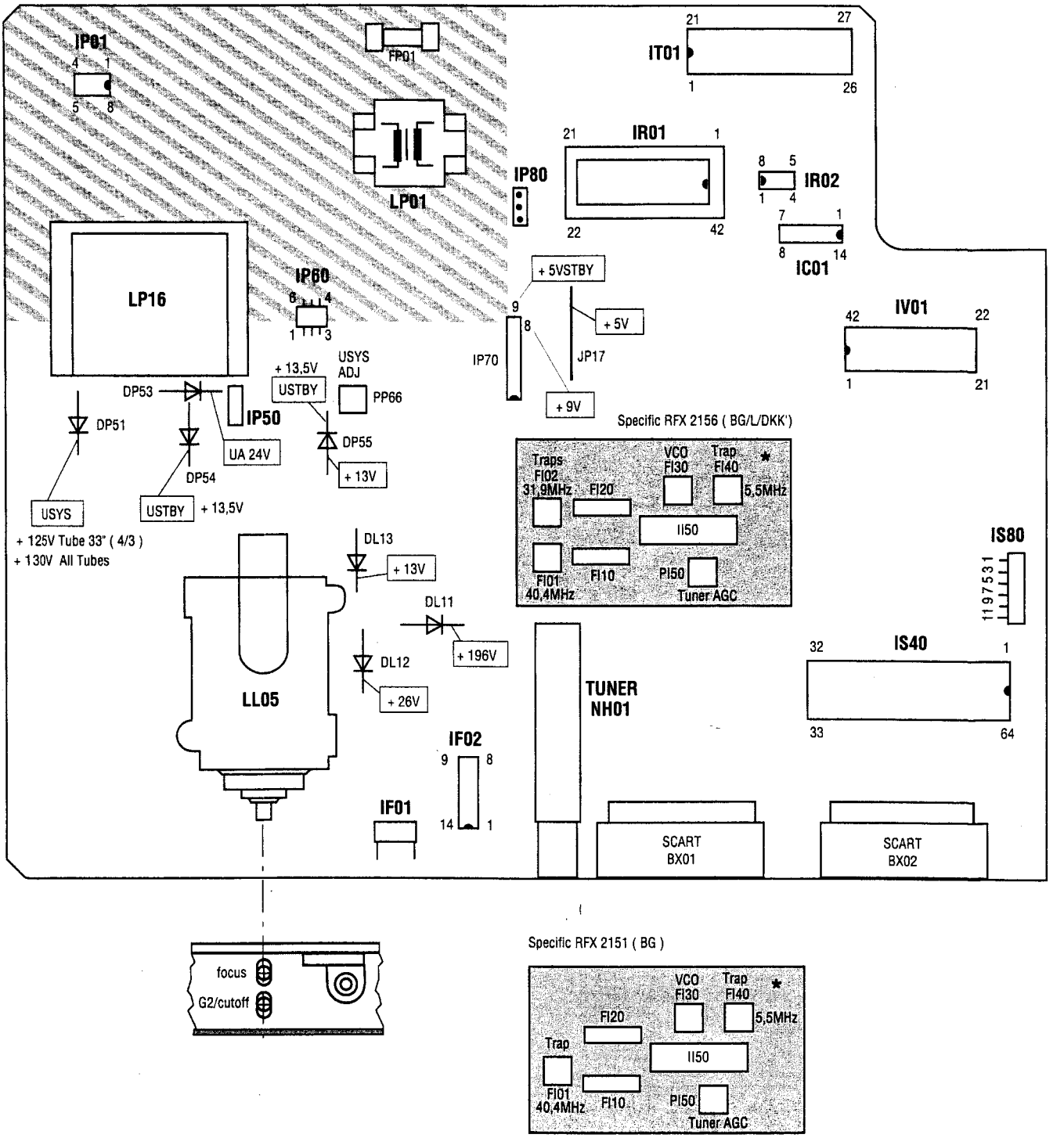
| | | ENGLISH | FRANÇAIS | DEUTSCH | ITALIANO | ESPAÑOL |
|---|---|---|---|---|---|---|
| 1 | ⊖→ | AUDIO "R" | AUDIO "D" | AUDIO "R" | AUDIO "D" | AUDIO "D" |
| 2 | →⊕ | AUDIO "R" | AUDIO "D" | AUDIO "R" | AUDIO "D" | AUDIO "D" |
| 3 | ⊖→ | AUDIO "L" | AUDIO "G" | AUDIO "L" | AUDIO "S" | AUDIO "I" |
| 4 | — | AUDIO | AUDIO | AUDIO | AUDIO | AUDIO |
| 5 | ⊥ | " BLUE " | " BLEU " | "BLAU" | "BLU" | "AZUL" |
| 6 | →⊕ | AUDIO "L" MONO | AUDIO "G" MONO | AUDIO "L" MONO | AUDIO "S" MONO | AUDIO "I" MONO |
| 7 | →⊕ | " BLUE " | " BLEU " | "BLAU" | BLU | AZUL |
| 8 | →⊕ | SLOW SWITCH | COMMUT. LENTE | AV UMSCHALTUNG | "COMMUTAZIONE LENTA" | "CONMUTACION LENTA" |
| 9 | ⊥ | " GREEN " | "VERT" | "GRÜN" | "VERDE" | "VERDE" |
| 10 | NC | | | | | |
| 11 | →⊕ | " GREEN " | "VERT"" | "GRÜN" | "VERDE" | "VERDE" |
| 12 | NC | | | | | |
| 13 | ⊥ | " RED " | "ROUGE" | "ROT" | "ROSSO" | "ROJA" |
| 14 | NC | | | | | |
| 15 | →⊕ | " RED " | "ROUGE" | "ROT" | "ROSSO" | "ROJA" |
| 16 | →⊕ | FAST SWITCH | COMMUT. RAPIDE | AUSTASTUNG | "COMMUTAZIONE RAPIDA" | "CONMUTACION RAPIDA" |
| 17 | — | VIDÉO | VIDÉO | VIDÉO | VIDÉO | VIDÉO |
| 18 | ⊥ | FAST SWITCH | COMMUT. RAPIDE | AUSTASTUNG | "COMMUTAZIONE RAPIDA" | "CONMUTACION RAPIDA" |
| 19 | ⊖→ | VIDEO | VIDÉO | VIDÉO | VIDÉO | VIDÉO |
| 20 | →⊕ | VIDEO OR "SYNC" | VIDEO SYNCHRO | VIDÉO ODER SYNCHRO | VIDEO O SINCRO | VIDEO O SINCRO |
| 21 | ⊖→ | PLUG SCREEN BOX | BLINDAGE PRISE | ABSCHIRMUNG DES STECKERS | ARMATURA DELLA SPINA | BLINDAJE DEL ENCHUFE |

⊖→ : OUTPUT - SORTIE - AUSGANG - USCITA - SALIDA

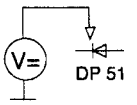
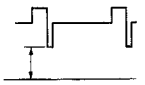
→⊕ : INPUT - ENTRÉE - EINGANG - ENTRATA - ENTRADA

⊥ : EARTH - MASSE - MASSE - MASSA - MASA

# LOCATION OF CONTROLS - EMPLACEMENT DES REGLAGES - SERVICE LAGEPLAN - POSIZIONE REGULATORI DI SERVIZIO - SITUACIÓN DE LOS AJUSTES



# ADJUSTMENTS - REGLAGES - EINSTELLUNGEN - REGOLAZIONE - AJUSTES

| | | | | |
|---|---|---|---|---|
| U Sys | PP 66 | Contrast, brightness and volume to minimum |   | 125V - Tube 33" (4/3) (A79 ECU 13x41) \| JL52<br>130V - all tubes tous tubes \| JL51 |
| U G2 / cutoff | SCREEN | AV (no Signal, black screen) | CRT IB01: pins 9 / 12 / 15<br>highest output |  Tube type□ \| Cutoff<br>AXX EAS \| 150V<br>AXX ECY \| 160V<br>A79 ECU \| 160V<br>W56 EGV \| 160V<br>W66 EDX \| 160V<br>W76 EGC \| 160V |
| FOCUS | FOCUS | Test pattern (standard values) | | Sharp picture |

## SERVICE-MODE (GB)

It is necessary to enter the Service Mode in order to carry out alignment of the TV set. Most adjustments can be made with the RCU, except the Usystem, Focus and Screen voltages.

### 1. Service Mode Access

1.1 With the RCU, switch the TV set into the **"Standby"** mode.
1.2 Switch **"Off"** the TV set by mains supply switch (wait until LED is dark).
1.3 Whilst depressing the RCU **"Blue (VT)"** button, switch **"On"** the TV set using the mains supply switch.
1.4 Release and press once again the RCU **"Blue (VT)"** button, the following **"Set-Up"** menu should be diplayed."

| SET-UP | VIDEO | GEOM |
|---|---|---|
| TX92 NM | | Configuration |

**Important** : The Service Mode cannot be entered if any equipment is connected to the Scart socket, i.e. pin 8 switching voltage present.

### 2. Function or Page Selection (GEOM)

2.1 With the RCU Volume **"+"** and **"-"** buttons, highlight the menu containing the function to be aligned.
2.2 Press the RCU **"Blue (VT)"** button to highlight the function to be aligned, or selected the page (1 , 2, 3..).

### 3. Switching between Service and TV modes

3.1 Whilst in the Service Mode, normal TV controls are disabled, to enable these controls whilst in the Service Mode (i.e. for channel changing etc.) press the**"TV"** button on the RCU. To return to the Service Mode, press the **"Blue (VT)"** button on the RCU.

### 4. Alignment and storing new function value

4.1 The current value of the selected function is displayed in a hexadecimal form to the right of the function name. This value is adjusted by means of the RCU Volume **"+"** and **"-"** buttons.
4.2 To STORE the functions new value, highlight **MEMO** and press the RCU Volume **"+"** button.
4.3 To RESTORE the functions original value, highlight **R-STO(RE)** and press the RCU Volume **"+"** button.
4.4 Selection the ROM functions downloads the production software default values, these are not very accurate and should only be used in very special cases.
Whilst in the «Service-Mode»,a long press (more than 3s) of the RCU «0» button, will reset the TV to the «factory default conditions».

### 5. Leaving the Service Mode

5.1 To leave the Service mode either, switch the TV set into **"Standby"** or switch **"Off"** the mains supply.

## MODE SERVICE (D)

Der Service-Mode wird für den Geräteabgleich benötigt. Alle Einstellungen erfolgen mit der Fernbedienung (bis auf Systemspannung, Fokuseinstellung und Schirmgitterspannung).

### 1.Service-Mode einschalten

1.1 Mit der Fernbedienung das Fernsehgerät in Stand-by schalten.
1.2 Das Gerät mit dem Netzschalter ausschalten (warten bis LED dunkel ist)
1.3 Die blaue Taste der Fernbedienung gedrückt halten und gleichzeitig das Gerät mit dem Netzschalter einschalten.
1.4 Das folgende Menü erscheint nach erneutem Drücken der blauen Taste

| SET-UP | VIDEO | GEOM |
|---|---|---|
| TX92 NM | | Configuration |

**Achtung** : Der Service-Mode läßt sich nicht einschalten, wenn an einer Euro-AV-Buchse ein Gerät aktiviert ist, d.h. die Schaltspannung anliegt.

### 2. Funktionswahl oder Seitenwahl (GEOM)

Mit den Tasten +/- wird das entsprechende Menü gewählt, welches mit der blauen Taste durchgeblättert wird oder die Seite ausgewählte wird (1,2 oder 3...).

### 3. Umschalten zwischen Service- und TV-Betrieb

Im Service-Mode sind die normalen Fernsehfunktionen nicht bedienbar. Werden diese im Service-Mode benötigt (z.B. Programmwechsel), kann mit der Taste ( **TV** ) in den normalen TV-Betrieb geschaltet werden. Durch Drücken der blauen Taste gelangt man zurück zum Service Mode.

### 4. Abgleich der gewählten Funktion und Speichern

Der momentane Wert der gewählten Funktion wird hexadezimal rechts neben der abzugleichenden Position angegeben und kann mit der Taste + bzw. - auf der Fembedienung verändert werden.
Die Änderungen des jeweiligen Menüs können unter MEMO mit der + Taste gespeichert, bzw unter R-STO(RE) rückgängig gemacht werden.
Im Menüpunkt ROM kann man die Software-Defaultwerte laden.Sie sind aber nur eine grobe Annäherung an den noch vorzunehmenden Abgleich und sollten nur im Notfall verwendet werden.
Im Service-Menü : Durch längeren Druck auf die "0" Taste auf der Fernbedienung wird das Gerät auf die "Factory default Werte zurückgesetzt.

### 5. Service-Mode verlassen

Zum Verlassen des Service-Mode das Gerät in Stand By schalten oder mit dem Netzschalter ausschalten.

**TV mono :**

| SET-UP | | | | | |
|---|---|---|---|---|---|
| Software code and configuration | | | | | |
| BRAND | 1 | 2 | 3 | | NONE |
| TUNER | A | | | | B |
| NORM | I | B | BD | BLD | BIL |
| SUB-VOL | - 2 / 2 | | | | 1 |
| - R-STO | + MEMO | | | | O ROM |

**TV stereo :**

| SET-UP | | | | | |
|---|---|---|---|---|---|
| Software code and configuration | | | | | |
| BRAND | 1 | 2 | 3 | | NONE |
| TUNER | A | | | | C |
| NORM | I | B | BD | BLD | BIL |
| DEC PR04 | On | | | | Off |
| - R-STO | + MEMO | | | | O ROM |

| VIDEO *page 1* | | |
|---|---|---|
| SUB-BRT | 7 / 7 | 0 |

| VIDEO *page 2* | | |
|---|---|---|
| R-DC | 00-3F | 24 |
| G-DC | 00-3F | 12 |

| VIDEO *page 3* | | |
|---|---|---|
| R-DRV | 00-3F | 1F |
| G-DRV | 00-3F | 1E |

| VIDEO *page 4* | | |
|---|---|---|
| B-DRV | 00-3F | 1C |
| PEAK | | - / + |

| VIDEO *page 5* | | |
|---|---|---|
| SUB-COL | -7 / 7 | 2 |
| - RESTORE | - MEMO | 0 ROM |

*page 1*

| GEOM | | |
|---|---|---|
| V - POS | 00 - 1F | 10 |
| V - AMP | 00 - 7F | 40 |
| V - LIN | 00 - 0F | 07 |
| H - PHA | 00 - 3F | 1F |
| H - AMP | 00 - 3F | 1F |

*page 2*

| GEOM | | |
|---|---|---|
| EW - TILT | 00 - 1F | 0F |
| EW - AMP | 00 - 1F | 0F |
| EW -SHP | 00 - 0F | 07 |
| - RESTORE | - MEMO | 0 ROM |

*Test Bar pattern used : 4/3 with geometric circle.*
*Mire utilisée : 4/3 avec un cercle de géométrie.*

*. adjust separate for 4/3 and 16/9 format*
*. régler séparément pour les formats 4/3 et 16/9*

| SET-UP | |
|---|---|
| **BRANDT** | **Brand Selection**<br>1 : TELEFUNKEN<br>2 : SABA/FERGUSON/ BRANDT<br>3 : THOMSON/ NORDMENDE |
| **TUNER** | **Tuner Type Selection**<br>A = Alps Selection<br>C = CTT5000 |
| **NORM** | **Standards**<br>B = BG PAL SECAM (Sound FM 5,5MHz)<br>I = I PAL (UK/IRELAND) (Sound FM 6MHz)<br>L = L SECAM (France) (Sound AM 6.5MHz)<br>D = DKK' SECAM (SOUND AM 6.5 MHZ)<br>M = NTSC M (Sound FM 4.5MHz) |
| **DEC PR4 (TX92 stereo)** | NICAM From Canal+ decoder<br>NICAM du Decod. Canal+<br>On : Enable<br>OFF : Disable<br>The special sound path handling for Canal+ on PRO4<br>Validation NICAM issu du decodeur Canal + (PRO4) |
| **SUB-VOL (TX92 mono)** | Volume offset adjustment:<br>◀—V— = 50%<br>Ve (AV) = 500mV / 1kHz<br>Adjust SUB-VOL \| Vs (Z = 8 )<br>Régler SUB-VOL \| = 545mV |

**Software Code :**

| Software Release Code | Description |
|---|---|
| TX92NM - (V V) | TX92F Mono Software |
| TX92NS - (V V) | TX92F Stereo Software |

**TV Configuration Code :**

| | |
|---|---|
| T | TEXT MODULE |
| S | STEREO MODULE |
| M | MONO SET |

| VIDEO | | |
|---|---|---|
| **SUB-BRT** ☼ + ◔ + ◑ = 50% | | black, noir |
| **R - DC*** | | grau, grey |
| **G - DC*** | | grau, grey |
| **R -DRV** | | weiß, white |
| **G - DRV** | | weiß, white |
| **B - DRV** | | weiß, white |
| **PEAK**** ☼ + ◔ = 50% ◑ = 100% | **CRT Pin 6,8,11** **Oscillo. or colorimeter** | 4/3 Nits Vpp<br>25" FS 420 80<br>28" FS 350 80<br>25" MP 420 76<br>28" MP 350 74<br>33" MP 280 80<br>Tube<br>16/9<br>24" SF 580 90<br>28" MP 480 92 |
| **SUB-COL** | **75% PAL Colour-bar Test pattern** | Saturation=100%<br>CRT Pin 11(B)<br>(Oscillo.1) |

**Notes :**

* adjust separate for PAL/NTSC/SECAM and RGB/AV

* régler séparément pour PAL/NTSC/SECAM et RGB/AV

* * After PEAK white adjustment control brightness and cut off setting. Repeat the adjustments if necessary.
Après le réglage de PEAK white contrôlez les réglages de lumière et de cut-off.Réitérez si nécessaire.

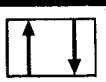
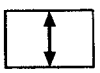
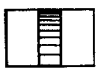
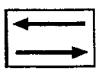
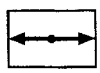
Oscillos.1

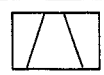
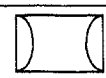
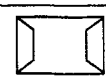
blue kathode

correct

blue kathode

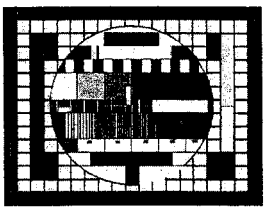
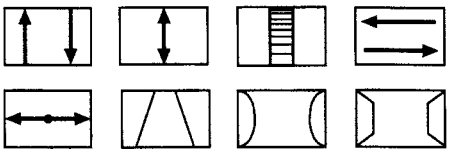
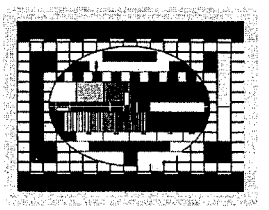
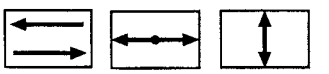
incorrect

| GEOM | | |
|---|---|---|
| **V - Pos** | |  |
| **V - Amp** | |  |
| **V - Lin** | |  |
| **H - PHA** | |  |
| **H - AMP** | |  |

| | | |
|---|---|---|
| **EW - TILT** | |  |
| **EW - AMP** | |  |
| **EW - SHP** | |  |

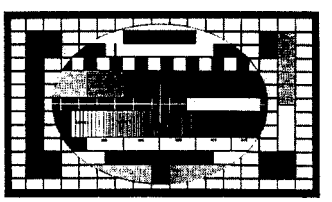
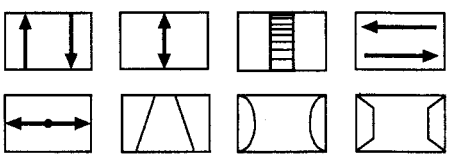
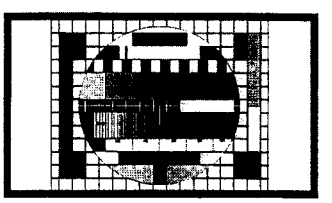
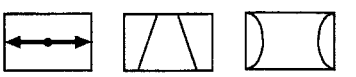
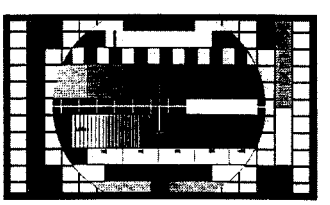
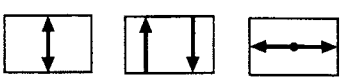
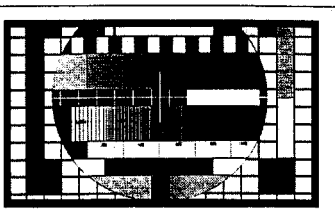
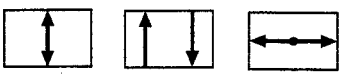
## GEOMETRY MODE ALIGNMENT - RECEIVER : TV WITH 4/3 TUBE

Signal : 4/3 test pattern

| | | |
|---|---|---|
| **4 / 3 standard mode** |  | overscan V=107% , H=107%<br>  |
| **16 / 9 standard mode** |  |  <br>1 - Adjust the horizontal overscan ( reference : screen edge )<br>2 - Adjust the vertical amplitud until the oval heigh is 75% of the oval width. |

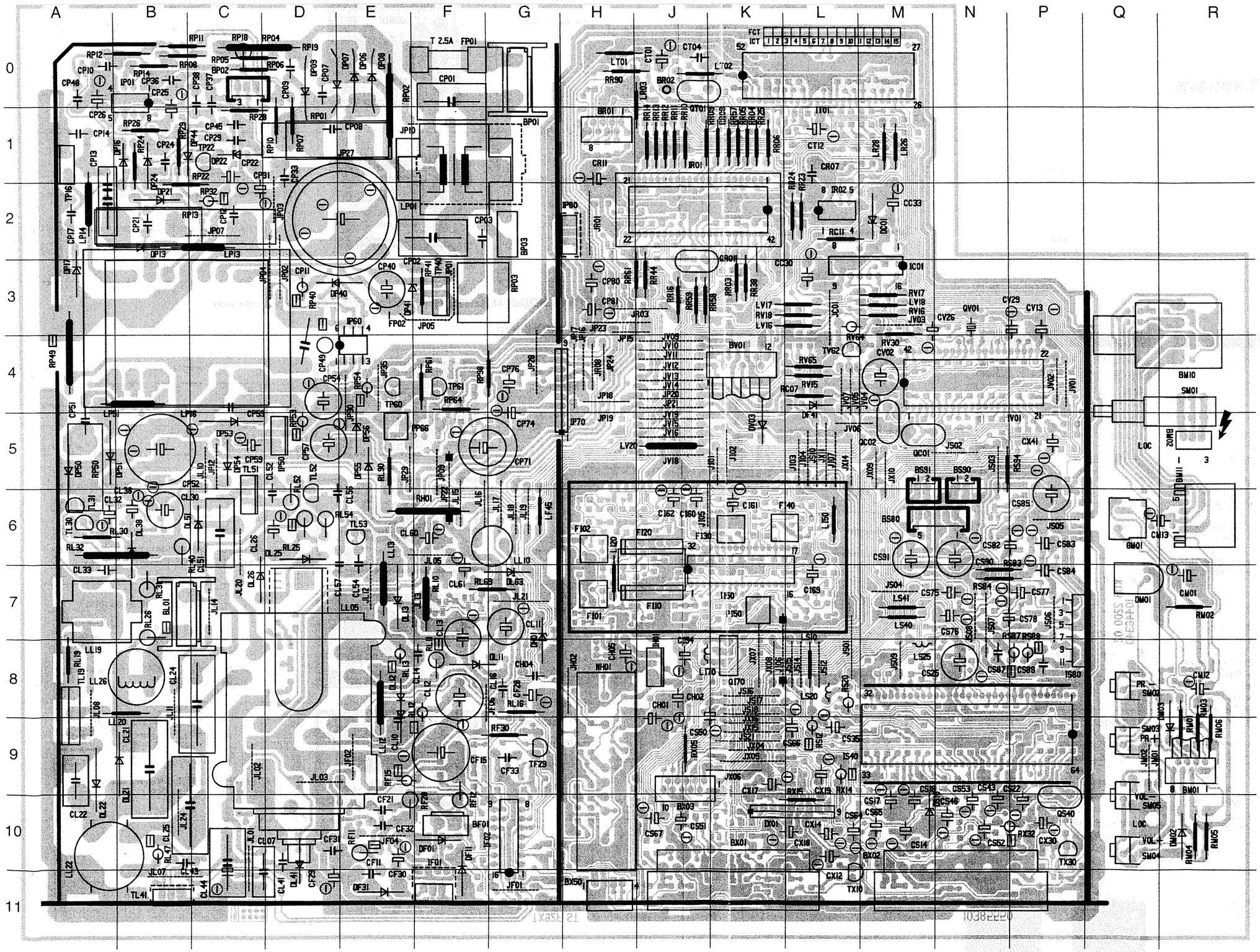
## GEOMETRY MODE ALIGNMENT - RECEIVER : TV WITH 16/9TUBE

Signal : 4/3 test pattern

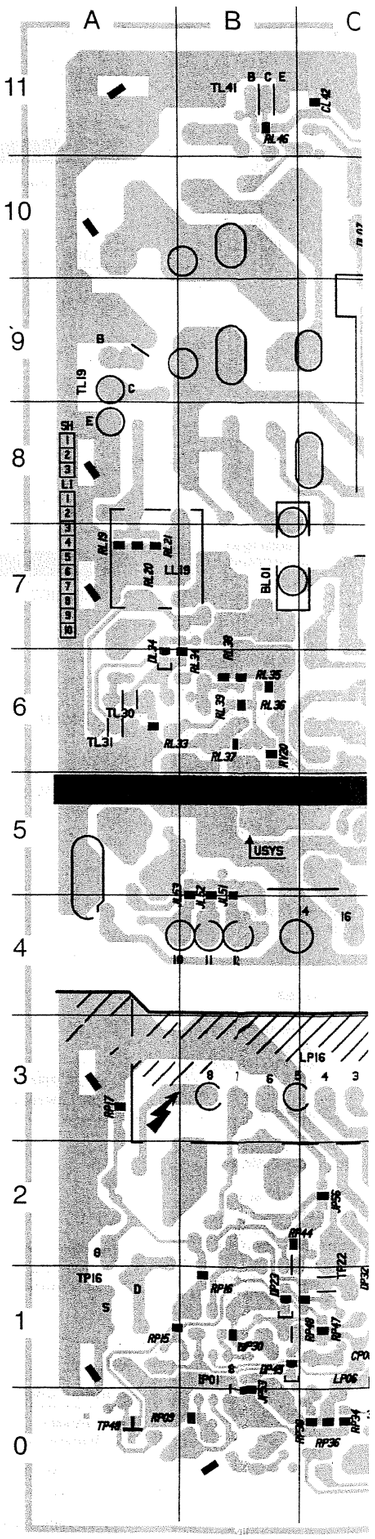
| | | |
|---|---|---|
| **16 / 9 Full screen mode ( zoom 3 )** |  | overscan V=107% , H=107%<br>  |
| **4/3 Centered (curtain) ( zoom 1 )** |  | overscan V=107% , H=77% of the screen<br>  <br>1 - V-pos, V-amp, V-LIN, H-PHA, EW-SHP : default data<br>2 - Adjust H-AMP, EW-TILT, EW-AMP |
| **< 4/3 > wide ( zoom 2 )** |  | overscan V=133% , H=107%<br>  <br>1 - V-LIN, H-PHA, EW-TILT, EW-AMP : default data<br>2 - Adjust V-POS, V-AMP, H-AMP |
| **⇧ 4/3 ⇧ PANNING ( zoom 2 )** |  | overscan V=133% , H=107%<br>  <br>1 - V-LIN, H-PHA, EW-TILT, EW-AMP : default data<br>2 - Adjust V-POS, V-AMP, H-AMP |

## MAIN BOARD - PLATINE PRINCIPALE - CHASSIS GRUNDPLATTE - PIASTRA PRINCIPALE - PLATINA PRINCIPAL ( TX92F STEREO )

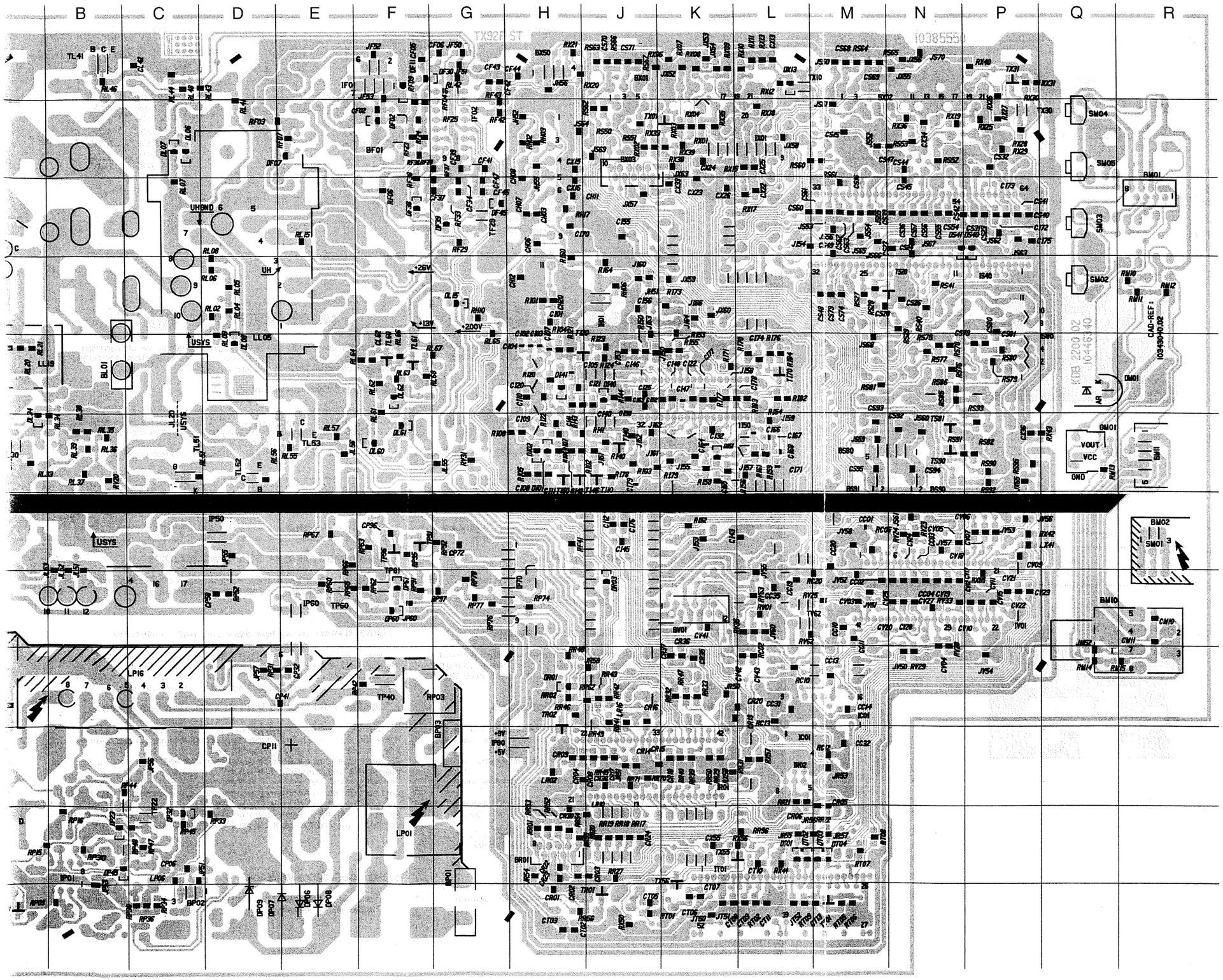
COMPONENT SIDE - COTE COMPOSANTS - BESTÜCKUNGSSEITE - LATO COMPONENTI - LADO COMPONENTES



SOLDER SIDE - CÔTE SOUDUR



R SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS




| 1 | 2 | 3 |
|---|---|---|

| | |
|---|---|
| BF01 | F10 |
| BF01* | F10 |
| BL01 | B7 |
| BL01* | B7 |
| BM01 | R9 |
| BM01* | R9 |
| BM02 | R5 |
| BM02* | R5 |
| BM10 | R4 |
| BM10* | Q4 |
| BM11 | R5 |
| BM11* | R6 |
| BP01 | G1 |
| BP01* | G1 |
| BP02 | C0 |
| BP02* | C0 |
| BP03 | G2 |
| BP03* | G2 |
| BR01 | H1 |
| BR01* | H1 |
| BR02 | J0 |
| BS80 | M6 |
| BS80* | M6 |
| BS90 | N5 |
| BS91 | M5 |
| BS91* | M6 |
| BV01 | K4 |
| BV01* | K4 |
| BX01 | K10 |
| BX01* | J11 |
| BX02 | M10 |
| BX02* | M11 |
| BX03 | J10 |
| BX03* | J10 |
| BX50 | H11 |
| BX50* | H11 |

| | |
|---|---|
| CC01* | M5 |
| CC02* | M4 |
| CC03* | N5 |
| CC04* | N4 |
| CC10* | M4 |
| CC11* | M3 |
| CC13* | M3 |
| CC14* | M3 |
| CC19* | L4 |
| CC20* | M5 |
| CC30 | K3 |
| CC31* | L3 |
| CC32* | M2 |
| CC33 | M2 |
| CC35* | L4 |
| CF02* | F10 |
| CF05* | F11 |
| CF06* | G11 |
| CF11 | E11 |
| CF15 | F9 |
| CF21 | E10 |
| CF28 | G8 |
| CF29 | D11 |
| CF30 | E11 |
| CF31 | D10 |
| CF32 | E10 |
| CF33 | G9 |
| CF34* | G9 |
| CF37* | G9 |
| CF39* | G10 |
| CF41* | G10 |
| CF42* | H11 |
| CF43* | G11 |
| CF44* | H11 |
| CF45* | G9 |
| CF47* | G9 |
| CH01 | J8 |
| CH02 | J8 |
| CH03* | H9 |
| CH04 | G8 |
| CH05 | H8 |
| CH06* | H9 |
| CH07* | H9 |
| CH08* | H10 |
| CH11* | J9 |
| CH12* | H8 |
| CH20* | H8 |
| CI01* | H8 |
| CI02* | H8 |
| CI03* | H8 |
| CI04* | H7 |
| CI05* | J7 |
| CI07* | H8 |
| CI08* | H6 |
| CI09* | H6 |
| CI10* | H7 |
| CI11* | H5 |
| CI11* | H6 |
| CI12* | J5 |
| CI20* | H7 |
| CI21* | J7 |
| CI22* | K7 |

| | |
|---|---|
| CI25* | J7 |
| CI32* | K6 |
| CI40* | J7 |
| CI43* | K5 |
| CI44* | H6 |
| CI45* | J5 |
| CI46* | J7 |
| CI47* | K7 |
| CI48* | K7 |
| CI50* | J7 |
| CI52* | J7 |
| CI53* | J7 |
| CI54 | J8 |
| CI55* | J9 |
| CI56* | J8 |
| CI60 | J6 |
| CI61 | K6 |
| CI62 | J6 |
| CI63* | J7 |
| CI64* | K6 |
| CI65* | K6 |
| CI66* | L6 |
| CI67* | L6 |
| CI68* | L6 |
| CI69 | L7 |
| CI70* | J9 |
| CI71* | L6 |
| CI72* | P9 |
| CI73* | P9 |
| CI74* | L7 |
| CI75* | P9 |
| CI76* | J5 |
| CI77* | K7 |
| CI78* | L7 |
| CI79* | J6 |
| CL07 | C10 |
| CL10 | E9 |
| CL11 | G7 |
| CL12 | F8 |
| CL13 | F7 |
| CL14 | E8 |
| CL16 | G8 |
| CL21 | B9 |
| CL22 | A10 |
| CL24 | B8 |
| CL25 | B10 |
| CL26 | C6 |
| CL30 | B6 |
| CL32 | B6 |
| CL33 | A7 |
| CL38 | B6 |
| CL41 | D11 |
| CL42* | C11 |
| CL43 | B11 |
| CL44 | C11 |
| CL51 | C7 |
| CL52 | D5 |
| CL54 | E7 |
| CL56 | E6 |
| CL57 | D7 |
| CL60 | E6 |
| CL61 | F7 |
| CL62* | F7 |
| CM01 | R7 |
| CM10* | R4 |
| CM11* | R4 |
| CM12 | R8 |
| CM13 | Q6 |
| CP01 | F0 |
| CP02 | E3 |
| CP03 | F2 |
| CP06* | C1 |
| CP07 | D0 |
| CP08 | E1 |
| CP09 | D0 |
| CP10 | A0 |
| CP11 | D3 |
| CP11* | D2 |
| CP12 | C2 |
| CP13 | A1 |
| CP14 | A1 |
| CP16 | B1 |
| CP17 | A2 |
| CP21 | B2 |
| CP22 | C1 |
| CP24 | B1 |
| CP25 | B0 |
| CP26 | A1 |
| CP29 | C1 |
| CP31 | C1 |
| CP32* | E3 |
| CP33 | D1 |
| CP36 | B0 |
| CP36* | K4 |
| CP37 | C0 |
| CP38 | C0 |
| CP40 | E3 |
| CP41* | E3 |
| CP44 | C1 |
| CP45 | C1 |
| CP48 | A0 |
| CP49 | D4 |
| CP51 | A5 |
| CP52 | B6 |
| CP52 | C5 |

| | |
|---|---|
| CP53 | C5 |
| CP54 | D4 |
| CP57 | D5 |
| CP58* | D4 |
| CP59 | C5 |
| CP71 | G5 |
| CP72* | G5 |
| CP74 | G5 |
| CP76 | G4 |
| CP80 | H3 |
| CP81 | H3 |
| CP96* | F5 |
| CR01* | M0 |
| CR02* | M0 |
| CR03* | J1 |
| CR04* | H2 |
| CR05* | M1 |
| CR06* | L1 |
| CR07 | L1 |
| CR08* | J2 |
| CR09* | H2 |
| CR11 | H1 |
| CR14* | J2 |
| CR15* | J2 |
| CR16* | J3 |
| CR17* | J2 |
| CR18* | K2 |
| CR19* | L3 |
| CR20* | L3 |
| CR22* | H1 |
| CR23* | H1 |
| CR24* | J1 |
| CR30* | H1 |
| CR35* | K3 |
| CR37* | K3 |
| CR38* | J2 |
| CS14 | M10 |
| CS15* | M10 |
| CS16* | M10 |
| CS17 | M10 |
| CS18 | M10 |
| CS22 | N10 |
| CS23* | P9 |
| CS24* | N9 |
| CS25 | M8 |
| CS26* | N8 |
| CS27* | M9 |
| CS28* | M8 |
| CS31* | P9 |
| CS32* | P10 |
| CS35 | L9 |
| CS36* | N9 |
| CS39* | M9 |
| CS40* | P9 |
| CS41* | P9 |
| CS42* | N9 |
| CS43 | N10 |
| CS44* | N10 |
| CS45* | N9 |
| CS46 | N10 |
| CS47* | M10 |
| CS48* | M8 |
| CS49* | M9 |
| CS50 | J9 |
| CS51 | J10 |
| CS52 | N10 |
| CS53 | N10 |
| CS54* | N9 |
| CS55* | N9 |
| CS56* | N9 |
| CS57* | N9 |
| CS60* | L9 |
| CS61* | L9 |
| CS62* | M9 |
| CS63* | M9 |
| CS64 | L10 |
| CS65 | M10 |
| CS66 | L9 |
| CS67 | J10 |
| CS68* | M11 |
| CS69* | M11 |
| CS70* | J11 |
| CS71* | J11 |
| CS73* | M8 |
| CS74* | M8 |
| CS75 | M7 |
| CS76 | N8 |
| CS77 | P7 |
| CS78 | P7 |
| CS79* | N8 |
| CS80* | N8 |
| CS81 | M6 |
| CS81* | N8 |
| CS82 | N6 |
| CS83 | P6 |
| CS84 | P7 |
| CS85 | P6 |
| CS87 | N8 |
| CS88 | P8 |
| CS90 | N7 |
| CS92* | N6 |
| CS93* | M7 |
| CS94* | N6 |
| CS95* | M6 |
| CT01 | J0 |

| | |
|---|---|
| CT02* | M0 |
| CT03* | M0 |
| CT04 | J0 |
| CT05* | J0 |
| CT06* | K0 |
| CT07* | K0 |
| CT08* | K0 |
| CT09* | L0 |
| CT10* | L1 |
| CT11* | L0 |
| CT12 | L1 |
| CV02 | M4 |
| CV03* | M4 |
| CV04* | N3 |
| CV05* | N5 |
| CV06* | P5 |
| CV07* | P5 |
| CV09* | P5 |
| CV10* | P4 |
| CV11* | P4 |
| CV12* | P4 |
| CV13 | P3 |
| CV15* | P4 |
| CV17* | P4 |
| CV18* | N5 |
| CV19* | N4 |
| CV20* | M4 |
| CV21* | P4 |
| CV22* | P4 |
| CV23* | Q4 |
| CV24* | N5 |
| CV25* | M4 |
| CV26 | N3 |
| CV27* | N4 |
| CV28* | N4 |
| CV29 | N3 |
| CV41* | K4 |
| CV42* | L3 |
| CV43* | L3 |
| CX12 | L11 |
| CX13* | L11 |
| CX14 | L10 |
| CX15* | H10 |
| CX16* | H9 |
| CX17 | K10 |
| CX18 | L10 |
| CX19 | L10 |
| CX22* | L9 |
| CX23* | K9 |
| CX24* | K10 |
| CX25* | L10 |
| CX26* | K9 |
| CX30 | P10 |
| CX33* | K9 |
| CX34* | N10 |
| CX36* | P6 |
| CX41 | P5 |
| CX55* | K1 |
| CX56* | K1 |

| | |
|---|---|
| DC01 | M2 |
| DF01 | F10 |
| DF01* | H6 |
| DF02* | F10 |
| DF02* | H6 |
| DF07* | E10 |
| DF11* | F11 |
| DF30* | G11 |
| DF31 | E11 |
| DF38* | F9 |
| DF39* | G9 |
| DF41 | L5 |
| DF45* | G9 |
| DH01 | G8 |
| DI40* | J7 |
| DI41* | H7 |
| DI51* | K6 |
| DL06* | C10 |
| DL07* | C10 |
| DL08* | D7 |
| DL12 | E8 |
| DL13 | E7 |
| DL15* | G8 |
| DL21 | B10 |
| DP22 | C1 |
| DP23* | B1 |
| DP24 | B2 |
| DP32* | C1 |
| DP40 | D3 |
| DP41 | E3 |
| DP45* | B1 |
| DP50 | A5 |
| DP51 | B5 |
| DP53 | C5 |
| DP54 | C5 |
| DP55 | E5 |
| DP56 | E5 |
| DP60* | F4 |
| DP61* | F4 |
| DR01* | H3 |
| DR03* | J4 |
| DS10 | M10 |

# COMPONENTS LOCATION - LOCALISATION DES ELEMENTS - LAGE DER BAUTEILE
# LOCALIZZAZIONE DEGLI ELEMENTI - LOCALIZACION DE LOS COMPONENTES

* SOLDER SIDE - COTE CUIVRE - LÖTSEITE - LATO SALDATURE - LADO DEL COBRE

| | |
|---|---|
| DS40* | P9 |
| DS41* | N9 |
| DT01* | L1 |
| DT02* | L1 |
| DT03* | M1 |
| DT04* | M1 |
| DT13* | M0 |
| DV03 | K5 |
| DX01 | K10 |
| DX13* | L11 |



| | |
|---|---|
| FI01 | H7 |
| FI02 | H6 |
| FI10 | J7 |
| FI20 | J6 |
| FI30 | J6 |
| FI40 | K6 |
| FP01 | F0 |
| FP02 | E3 |

| | |
|---|---|
| IC01* | L2 |
| IC01* | M3 |
| IC03 | M3 |
| IF01 | F11 |
| IF01* | E11 |
| IF02 | F10 |
| IF02* | G10 |
| IH01 | J8 |
| IH01* | J8 |
| II50 | K7 |
| II50* | L6 |
| IP01 | B0 |
| IP01* | B1 |
| IP50 | D5 |
| IP50* | D5 |
| IP60 | E3 |
| IP60* | E4 |
| IP70* | H4 |
| IP80 | H2 |
| IP80* | G2 |
| IR01 | J1 |
| IR01* | K2 |
| IR02 | L2 |
| IR02* | L2 |
| IS40 | L9 |
| IS40* | P8 |
| IS80 | P8 |
| IS80* | Q7 |
| IT01 | L1 |
| IT01* | K1 |
| IV01 | N5 |
| IV01* | P4 |
| IX01* | L10 |



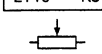
| | |
|---|---|
| JC01 | L3 |
| JF01 | G11 |
| JF02 | E9 |
| JF04 | E10 |
| JF06 | G8 |
| JF50* | G11 |
| JF51* | G11 |
| JF52* | F11 |
| JF53* | F11 |
| JH02 | H8 |
| JH51* | J8 |
| JH52* | H10 |
| JH55* | H9 |
| JH56* | H11 |
| JI01 | J5 |
| JI02 | K5 |
| JI03 | L5 |
| JI04 | L5 |
| JI05 | J6 |
| JI06 | K8 |
| JI07 | L5 |
| JI50* | K7 |
| JI51* | J6 |
| JI52* | J6 |
| JI53* | K5 |
| JI54* | L9 |
| JI55* | K6 |
| JI57* | L6 |
| JI58* | L7 |
| JI59* | L6 |
| JI60* | J8 |
| JI61* | J6 |
| JI62* | J6 |
| JI63* | J8 |
| JI64* | K8 |
| JI66* | K8 |
| JL01 | C10 |
| JL02 | C9 |

| | |
|---|---|
| JL03 | D9 |
| JL05 | F7 |
| JL07 | B11 |
| JL08 | A8 |
| JL10 | C5 |
| JL11 | B8 |
| JL12 | E7 |
| JL13 | F7 |
| JL14 | C7 |
| JL15 | F6 |
| JL16 | F6 |
| JL17 | G6 |
| JL18 | G6 |
| JL19 | G6 |
| JL20 | C7 |
| JL20* | C6 |
| JL21 | G7 |
| JL24 | B10 |
| JL51* | B4 |
| JL52* | B4 |
| JL53* | B4 |
| JL55* | G6 |
| JL56* | F6 |
| JM01 | Q9 |
| JM02 | Q9 |
| JM52* | Q4 |
| JP01 | F3 |
| JP02 | D3 |
| JP03 | D2 |
| JP04 | C3 |
| JP05 | F3 |
| JP07 | C2 |
| JP09 | F5 |
| JP10 | F1 |
| JP12 | C5 |
| JP15 | H4 |
| JP16 | H4 |
| JP17 | H4 |
| JP18 | H4 |
| JP19 | H5 |
| JP20 | J4 |
| JP21 | J4 |
| JP22 | F6 |
| JP23 | H3 |
| JP24 | H4 |
| JP27 | E1 |
| JP28 | G4 |
| JP29 | E5 |
| JP30 | E5 |
| JP35 | E4 |
| JP51* | D1 |
| JP53* | B0 |
| JP56* | C2 |
| JP56* | L1 |
| JP57* | D3 |
| JP60* | F4 |
| JR01 | H2 |
| JR03 | H3 |
| JR08 | H4 |
| JR50* | K3 |
| JR51* | J2 |
| JR53* | M2 |
| JR54* | H1 |
| JR55* | L1 |
| JR57* | M1 |
| JR58* | J3 |
| JS01 | L8 |
| JS02 | N5 |
| JS03 | N5 |
| JS04 | M7 |
| JS05 | P6 |
| JS06 | P7 |
| JS07 | N7 |
| JS08 | N8 |
| JS09 | M8 |
| JS10 | L5 |
| JS12 | L8 |
| JS14 | L8 |
| JS15 | K8 |
| JS16 | K8 |
| JS17 | K8 |
| JS18 | K9 |
| JS21 | K9 |
| JS50* | M11 |
| JS51* | M11 |
| JS52* | M10 |
| JS53* | L9 |
| JS54* | M9 |
| JS55* | M9 |
| JS56* | M9 |
| JS59* | M6 |
| JS60* | N6 |
| JS61* | N5 |
| JS62* | P9 |
| JS63* | P9 |
| JS64* | H10 |
| JS65* | M9 |
| JS66* | M9 |
| JS67* | N9 |
| JS68* | M7 |

| | |
|---|---|
| JS69* | J10 |
| JS70* | N11 |
| JT50* | K0 |
| JT51* | K0 |
| JT52* | L0 |
| JV01 | P4 |
| JV02 | P4 |
| JV03 | M3 |
| JV04 | L4 |
| JV05 | L4 |
| JV06 | L5 |
| JV07 | L4 |
| JV09 | J4 |
| JV10 | J4 |
| JV11 | J4 |
| JV12 | J4 |
| JV13 | J4 |
| JV14 | J4 |
| JV15 | J5 |
| JV16 | J5 |
| JV18 | J5 |
| JV19 | J5 |
| JV50* | N3 |
| JV51* | M4 |
| JV52* | M4 |
| JV53* | P5 |
| JV54* | P3 |
| JV55* | L4 |
| JV56* | Q5 |
| JV58* | M5 |
| JV60* | L4 |
| JX04 | K9 |
| JX05 | K9 |
| JX06 | K9 |
| JX07 | K8 |
| JX08 | K8 |
| JX09 | M5 |
| JX10 | M5 |
| JX11 | L5 |
| JX14 | L5 |
| JX15 | K9 |
| JX16 | K9 |
| JX52* | K11 |
| JX53* | K11 |
| JX54* | K11 |
| JX55* | N11 |
| JX56* | N11 |
| JX57* | J9 |
| JX58* | L10 |
| JX59* | K8 |
| JX60* | K8 |
| JX63* | K10 |
| JX65* | P6 |



| | |
|---|---|
| LF45 | G6 |
| LI20 | H6 |
| LI50 | L6 |
| LI70 | J8 |
| LL05 | E7 |
| LL05* | D7 |
| LL10 | G7 |
| LL12 | E9 |
| LL13 | E6 |
| LL19 | A8 |
| LL19* | B7 |
| LL20 | B9 |
| LL22 | A11 |
| LL26 | A8 |
| LP01 | E2 |
| LP01* | F1 |
| LP06* | C1 |
| LP13 | C2 |
| LP14 | A2 |
| LP16 | B5 |
| LP16* | C3 |
| LP51 | A5 |
| LR02* | H2 |
| LR03 | J0 |
| LR10* | J1 |
| LR16* | J3 |
| LR26 | M1 |
| LR28 | M1 |
| LS10 | L8 |
| LS20 | L8 |
| LS25 | M8 |
| LS40 | M7 |
| LS41 | M7 |
| LT01 | H0 |
| LT02 | K0 |
| LV17 | K3 |
| LV18 | M3 |
| LX41* | Q5 |
| LV20 | H5 |
| LY16 | K3 |



| | |
|---|---|
| PI50 | K7 |

| | |
|---|---|
| QC01 | M5 |
| QC02 | L5 |
| QI70 | K8 |
| QR01 | K3 |
| QS40 | P10 |
| QT01 | J1 |
| QV01 | N3 |

| | |
|---|---|
| RC02* | L3 |
| RC06* | M5 |
| RC07 | K4 |
| RC10* | L3 |
| RC11 | L2 |
| RC12* | M2 |
| RC13* | L2 |
| RC20* | L4 |
| RF03* | D10 |
| RF04* | G11 |
| RF06* | F9 |
| RF07* | E10 |
| RF09* | F11 |
| RF11 | E10 |
| RF12 | F10 |
| RF15 | E9 |
| RF20 | F10 |
| RF23* | F10 |
| RF24* | F10 |
| RF25* | G10 |
| RF28* | F10 |
| RF29* | G9 |
| RF30 | G9 |
| RF33* | G9 |
| RF36* | F10 |
| RF37* | G10 |
| RF38* | F9 |
| RF41* | H5 |
| RF42* | G10 |
| RF43* | G11 |
| RH01 | F6 |
| RH02* | H10 |
| RH03* | H10 |
| RH06* | J8 |
| RH10* | G8 |
| RH17* | J9 |
| RI01* | H8 |
| RI02* | J6 |
| RI03* | J6 |
| RI04* | H8 |
| RI05* | H6 |
| RI06* | H6 |
| RI07* | H6 |
| RI08* | G6 |
| RI20* | H7 |
| RI21* | H8 |
| RI22* | H6 |
| RI23* | J7 |
| RI24* | J7 |
| RI40* | J6 |
| RI41* | J6 |
| RI42* | H5 |
| RI42* | H6 |
| RI43* | H6 |
| RI44* | J7 |
| RI50* | J8 |
| RI52* | K5 |
| RI53* | K8 |
| RI54* | L7 |
| RI55* | K7 |
| RI56* | L6 |
| RI58* | K6 |
| RI59* | L6 |
| RI60* | H9 |
| RI61* | L6 |
| RI64* | J8 |
| RI70* | L7 |
| RI71* | K7 |
| RI73* | K8 |
| RI76* | L7 |
| RI77* | K7 |
| RI78* | J6 |
| RI79* | K6 |
| RI82* | L7 |
| RI83* | L7 |
| RI84* | L7 |
| RL02* | D8 |
| RL03* | D7 |
| RL04* | D8 |
| RL05* | D8 |
| RL06* | D8 |
| RL07* | C9 |
| RL08* | D9 |
| RL10 | F7 |
| RL12 | E8 |
| RL13 | E8 |
| RL15* | E9 |

| | |
|---|---|
| RL16 | G8 |
| RL19 | A8 |
| RL19* | A7 |
| RL20* | A7 |
| RL21* | A7 |
| RL25 | D6 |
| RL26 | B7 |
| RL30 | B6 |
| RL31 | B7 |
| RL32 | A6 |
| RL33* | B6 |
| RL34* | B6 |
| RL35* | B6 |
| RL36* | B6 |
| RL37* | B7 |
| RL38* | B6 |
| RL39* | B6 |
| RL40 | C7 |
| RL41* | D10 |
| RL42* | G11 |
| RL43* | D11 |
| RL44* | C11 |
| RL46* | B11 |
| RL48* | C11 |
| RL51* | B6 |
| RL52 | D6 |
| RL54 | E6 |
| RL55* | E6 |
| RL56* | E6 |
| RL57* | E6 |
| RL61* | F7 |
| RL62* | F7 |
| RL63* | F7 |
| RL64* | F7 |
| RL65 | F7 |
| RL65* | G7 |
| RL66* | F7 |
| RL67* | G7 |
| RL68* | G7 |
| RL90 | E5 |
| RM01 | R9 |
| RM02 | R7 |
| RM03 | R9 |
| RM04 | R10 |
| RM05 | R10 |
| RM06 | R9 |
| RM10* | R8 |
| RM11* | R8 |
| RM12* | R8 |
| RM13* | Q6 |
| RM14* | Q3 |
| RM15* | Q3 |
| RP01 | D1 |
| RP02 | E0 |
| RP03 | G3 |
| RP03* | G3 |
| RP04 | D0 |
| RP05 | C0 |
| RP06 | D0 |
| RP07 | D1 |
| RP08 | B0 |
| RP09* | A0 |
| RP10 | D1 |
| RP11 | C0 |
| RP12 | A0 |
| RP13 | B2 |
| RP14 | B0 |
| RP15* | A1 |
| RP16* | B1 |
| RP17* | A3 |
| RP18 | C0 |
| RP19 | D0 |
| RP22 | C1 |
| RP24 | B1 |
| RP26 | B1 |
| RP28 | C1 |
| RP29 | B1 |
| RP30* | B1 |
| RP31* | D3 |
| RP32 | C2 |
| RP33* | D1 |
| RP34* | C0 |
| RP36* | C0 |
| RP38* | C0 |
| RP40 | D3 |
| RP41 | F3 |
| RP42* | F3 |
| RP44* | C2 |
| RP45* | C1 |
| RP47* | C1 |
| RP48* | C1 |
| RP49 | A4 |
| RP50 | A5 |
| RP52* | D4 |
| RP53 | D5 |
| RP54 | E4 |
| RP56* | J0 |
| RP60* | E4 |
| RP61 | F4 |
| RP62* | F4 |

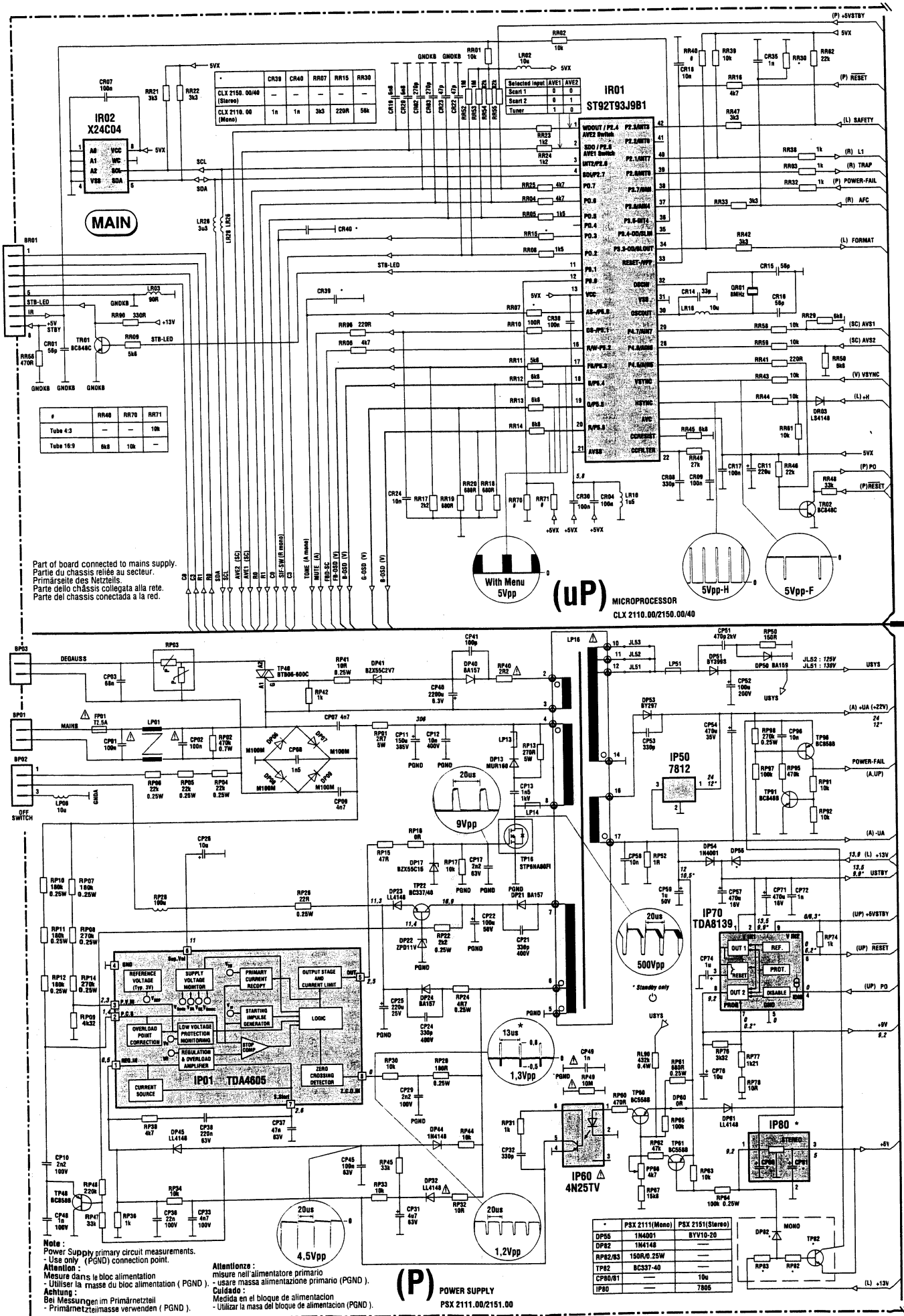
| | |
|---|---|
| RP63* | F5 |
| RP64 | F4 |
| RP65* | E4 |
| RP66 | F5 |
| RP66* | E5 |
| RP67* | E5 |
| RP74* | H4 |
| RP76* | G4 |
| RP77* | G4 |
| RP78* | G4 |
| RP91* | F4 |
| RP92* | G5 |
| RP95* | F5 |
| RP97* | G4 |
| RP98 | F4 |
| RR01* | H1 |
| RR02* | H3 |
| RR03 | K3 |
| RR04 | K1 |
| RR05 | K1 |
| RR06 | K1 |
| RR08 | K1 |
| RR09 | J1 |
| RR10 | J1 |
| RR11 | J1 |
| RR12 | J1 |
| RR13 | J1 |
| RR14 | J1 |
| RR16 | J3 |
| RR17* | J1 |
| RR18* | J1 |
| RR19* | J1 |
| RR20* | J1 |
| RR21* | L1 |
| RR22* | M1 |
| RR23 | L2 |
| RR24 | L2 |
| RR25 | K1 |
| RR27* | J1 |
| RR29* | K2 |
| RR31* | L2 |
| RR32* | K3 |
| RR33* | K3 |
| RR38 | K3 |
| RR39* | K2 |
| RR40* | K2 |
| RR41* | J2 |
| RR42* | J3 |
| RR43* | J3 |
| RR44 | J3 |
| RR45* | J2 |
| RR46* | H3 |
| RR47* | K3 |
| RR48* | H3 |
| RR49* | J2 |
| RR50* | K2 |
| RR52* | H1 |
| RR53* | H1 |
| RR54* | H1 |
| RR55* | J1 |
| RR57 | K1 |
| RR58 | J3 |
| RR59 | J3 |
| RR61 | H3 |
| RR62* | J3 |
| RR70* | J2 |
| RR71* | J2 |
| RR90 | H0 |
| RR96* | L1 |
| RS12 | L9 |
| RS20 | L8 |
| RS27* | M8 |
| RS28* | M8 |
| RS29* | N7 |
| RS40* | N8 |
| RS41* | N8 |
| RS50* | J10 |
| RS51* | J10 |
| RS52* | N10 |
| RS53* | N10 |
| RS60* | L10 |
| RS61* | M10 |
| RS62* | J10 |
| RS63* | J11 |
| RS64* | M11 |
| RS65* | N11 |
| RS66* | J11 |
| RS67* | J11 |
| RS75* | N7 |
| RS76* | N7 |
| RS77* | N7 |
| RS78* | N7 |
| RS79* | P7 |
| RS80* | P7 |
| RS81* | M7 |
| RS82* | P6 |
| RS83 | N7 |
| RS84 | N7 |
| RS85* | N7 |
| RS86* | N7 |

| | |
|---|---|
| RS87 | N8 |
| RS88 | P8 |
| RS90* | P6 |
| RS91* | N6 |
| RS92* | P6 |
| RS93* | P7 |
| RS94 | N5 |
| RS95* | P6 |
| RT01* | K0 |
| RT02* | L0 |
| RT05* | N0 |
| RT06* | N0 |
| RT07* | M1 |
| RT08* | M1 |
| RT09* | L0 |
| RV01* | L4 |
| RV15 | L4 |
| RV16 | M3 |
| RV17 | M3 |
| RV18 | K3 |
| RV20* | B6 |
| RV23* | N5 |
| RV24* | N5 |
| RV25* | L4 |
| RV28* | N3 |
| RV29* | N3 |
| RV30 | M4 |
| RV31* | G6 |
| RV33* | L4 |
| RV35* | L4 |
| RV62* | L4 |
| RV63* | L4 |
| RV64 | L4 |
| RV65 | L4 |
| RX01* | K10 |
| RX02* | J10 |
| RX03* | K10 |
| RX04* | K10 |
| RX06* | J11 |
| RX07* | K11 |
| RX08* | K11 |
| RX09* | K11 |
| RX10* | L11 |
| RX11* | L11 |
| RX12* | L11 |
| RX13* | L11 |
| RX14 | L10 |
| RX15 | L10 |
| RX16* | K10 |
| RX17* | L9 |
| RX18* | L10 |
| RX19* | N10 |
| RX20* | J11 |
| RX21* | H11 |
| RX25* | P10 |
| RX26* | P10 |
| RX27* | P10 |
| RX28* | P10 |
| RX29* | P10 |
| RX30* | P11 |
| RX31* | Q11 |
| RX32 | P10 |
| RX33* | J10 |
| RX35* | K10 |
| RX36* | N10 |
| RX38* | K10 |
| RX39* | K10 |
| RX40* | P11 |
| RX42* | Q5 |
| RX43* | Q6 |
| RX44* | L1 |
| RX50* | J0 |
| RX55* | P4 |
| RX57* | L2 |
| RX58* | K2 |

| | |
|---|---|
| TF29 | G9 |
| TF29* | G9 |
| TI10* | J5 |
| TI10* | J6 |
| TI20* | J8 |
| TI45* | J5 |
| TI45* | J6 |
| TI50* | H6 |
| TI70* | L7 |
| TL19 | A8 |
| TL19* | A9 |
| TL30 | A6 |
| TL30* | A6 |
| TL31 | A6 |
| TL31* | A6 |
| TL38 | B6 |
| TL41 | B11 |
| TL41* | B11 |
| TL51 | B6 |
| TL51 | C5 |
| TL51* | D6 |

| | |
|---|---|
| TL52 | D5 |
| TL52* | D6 |
| TL53 | E6 |
| TL53* | E6 |
| TL61* | F7 |
| TP16 | A2 |
| TP16* | A1 |
| TP22 | C1 |
| TP22* | C1 |
| TP40* | F3 |
| TP40 | F3 |
| TP48* | A0 |
| TP60 | E4 |
| TP60* | E4 |
| TP61 | F4 |
| TP61* | F4 |
| TP70 | H5 |
| TP91* | G5 |
| TP96* | F5 |
| TR01* | J0 |
| TR02* | H3 |
| TS20* | N8 |
| TS81* | N6 |
| TS90* | N6 |
| TT01* | M0 |
| TV62 | L4 |
| TX01* | J10 |
| TX10 | L11 |
| TX10* | M11 |
| TX30 | P10 |
| TX30* | Q10 |
| TX31* | P11 |
| TX55* | K1 |
| TX56* | J1 |
| TY62* | L4 |

# MICROPROCESSOR / POWER SUPPLY - MICROPROCESSEUR / ALIMENTATION - MIKROPROZESSOR / NETZTEIL - MICROPROCESSORE / ALIMENTAZIONE - MICROPROCESADOR / ALIMENTACION




| | CR39 | CR40 | RR07 | RR15 | RR30 |
|---|---|---|---|---|---|
| CLX 2150. 00/40 (Stereo) | – | – | – | – | – |
| CLX 2110. 00 (Mono) | 1n | 1n | 3k3 | 220R | 56k |

| Selected input | AVE1 | AVE2 |
|---|---|---|
| Scart 1 | 0 | 0 |
| Scart 2 | 0 | 1 |
| Tuner | 1 | 0 |

| | RR40 | RR70 | RR71 |
|---|---|---|---|
| Tube 4:3 | – | – | 10k |
| Tube 16:9 | 6k8 | 10k | – |

| | PSX 2111(Mono) | PSX 2151(Stereo) |
|---|---|---|
| DP55 | 1N4001 | BYV10-20 |
| DP82 | 1N4148 | — |
| RP82/83 | 150R/0.25W | — |
| TP82 | BC337-40 | — |
| CP80/81 | — | 10u |
| IP80 | — | 7805 |

**Note :**
Power Supply primary circuit measurements.
- Use only (PGND) connection point.

**Attention :**
Mesure dans le bloc alimentation
- Utiliser la masse du bloc alimentation ( PGND ).

**Achtung :**
Bei Messungen im Primärnetzteil
- Primärnetzteilmasse verwenden ( PGND ).

**Attentionze :**
misure nell'alimentatore primario
- usare massa alimentazione primario (PGND ).

**Cuidado :**
Medida en el bloque de alimentacion
- Utilizar la masa del bloque de alimentacion (PGND ).

**TX92F**



First issue 10 / 96

# COMPLETE PCB DIAGRAM - SCHEMA PLATINE PRINCIPALE EQUIPEE - SCHALTUNG LEITERPLATTE KPL - SCHEMA PIASTRA COMPLETA - ESQUEMA PLATINA EQUIPADA ( STEREO )

MAIN

NH01 AGC

IH01 MC7805-CT

TI10 BCR148

FI01 40,4MHz

FI02 31,9MHz

FI10 38,9MHz

FI20 OFWK9354M

FI30 77,8MHz

FI40 6,6MHz

II50 TDA9811/V3

| STANDARD BG / L / DK | | | |
|---|---|---|---|
| | LOGIC | TRAP | L1 |
| BG | 5V8 | 1 | 0 |
| L | 0 | 0 | 0 |
| DK | 5,6V | 0 | 0 |

**(R)** TUNER IF PART
RFX 2156.00 IF for standard BG/L/DK
( For standard BG : RFX 2151 p. 19-20 )

1,5V 2,5Vpp-H PAL

1,5V 2,5Vpp-H SECAM

**(A)** AUDIO PART
AUX 2151.10 / 2171.10

| | | I540 | CS40 | CS |
|---|---|---|---|---|
| AUX 2151.10 | BG-Stereo | MSP3480C | 1p | 1 |
| AUX 2171.10 | BG-Stereo + NICAM | MSP3410B | 3p3 | 3 |

| | BS90 | JS59 | JS68 |
|---|---|---|---|
| frontconnector | X | – | – |
| no frontconnector | – | X | X |

| | IT01 | |
|---|---|---|
| VTX 2101 00 | SAA52812P-E | EU |
| VTX 2102 00 | SAA52812P-H | EUcast |
| VTX 2103 00 | SAA52812P-T | Turkey |

IT01* SAA5281 2P-E/H/T

**(VTX)** TELETEXT PART
VTX 2101.00
VTX 2102.00
VTX 2103.00

3,5V 1,5Vpp-H PAL

3,5V 2,5Vpp-H SECAM

IV01 STV2118A / STV2112 TV PROCESSOR

ID01 TDA4665

**(V)** VIDEO CHROMA PART
VCX 2133.10
VCX 2124.10
VCX 2122.10

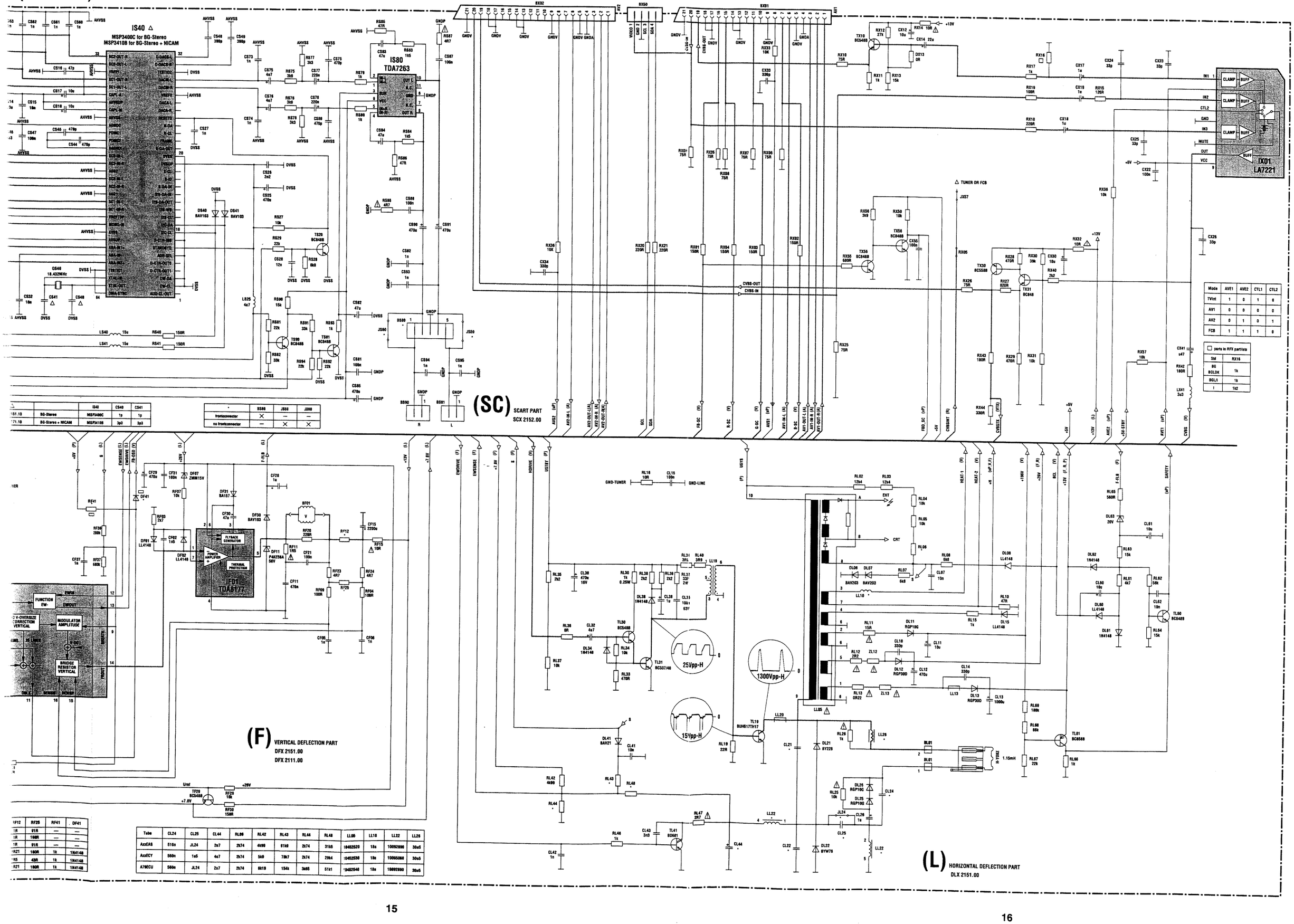
| | IV01 | QC02 | CC01 |
|---|---|---|---|
| VCX 2122.10 | STV2112 | - | X |
| VCX 2124.10 | STV2116 | X | - |
| VCX 2133.10 | STV2118A1 | X | X |

X = Inserted
- = Not inserted

IF02 STV2145

| Tubes | RF12 | RF25 | RF41 | DF41 |
|---|---|---|---|---|
| AzzEA8 | 1R | 91R | — | — |
| AzzECY | 1R | 180R | — | — |
| A79ECU | 1R | 91R | — | — |
| W56ESV | 1R21 | 180R | 1k | 1N4148 |
| W66EDX | 1R5 | 43R | 1k | 1N4148 |
| W76ESC | 1R21 | 180R | 1k | 1N4148 |

# ( STEREO )




| | | IS40 | CS40 | CS41 |
|---|---|---|---|---|
| 181.10 | BG-Stereo | MSP3400C | 1p | 1p |
| 171.10 | BG-Stereo + NICAM | MSP3410B | 3p3 | 3p3 |

| | BS88 | JS59 | JS60 |
|---|---|---|---|
| frontconnector | X | — | — |
| no frontconnector | — | X | X |

| Mode | AVE1 | AVE2 | CTL1 | CTL2 |
|---|---|---|---|---|
| TVint | 1 | 0 | 1 | 0 |
| AV1 | 0 | 0 | 0 | 0 |
| AV2 | 0 | 1 | 0 | 1 |
| FCB | 1 | 1 | 1 | 0 |

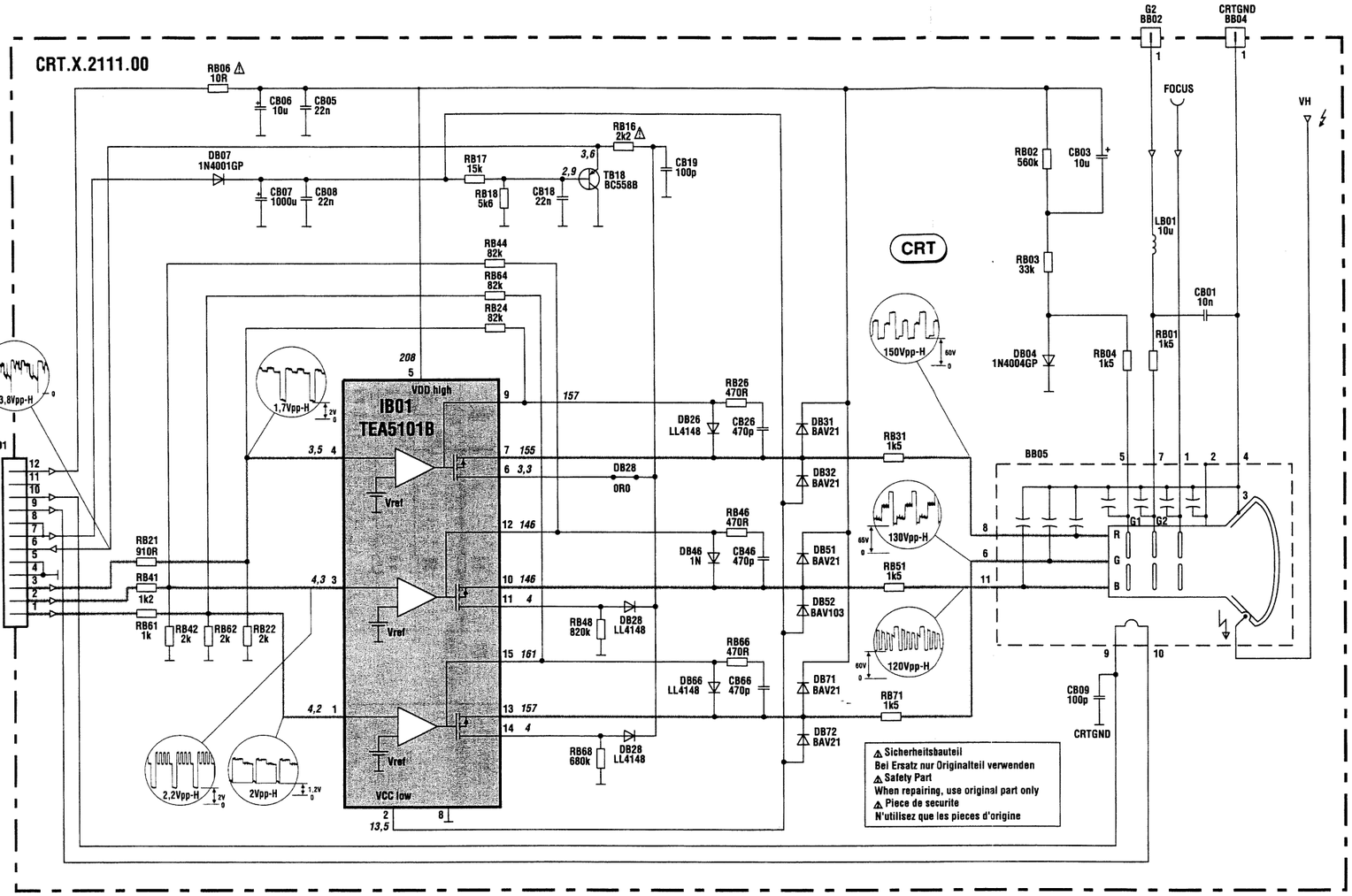
□ parts in RFX partlists

| Std | RX16 |
|---|---|
| BG BGLDK | 1k |
| BGL/1 | 1k |
| I | 1k2 |

| | RF28 | RF41 | DF41 |
|---|---|---|---|
| RP12 | RF28 | RF41 | DF41 |
| 1R | 91R | — | — |
| 1R | 160R | — | — |
| 1R | 91R | — | — |
| R21 | 160R | 1k | 1N4148 |
| R5 | 43R | 1k | 1N4148 |
| R21 | 160R | 1k | 1N4148 |

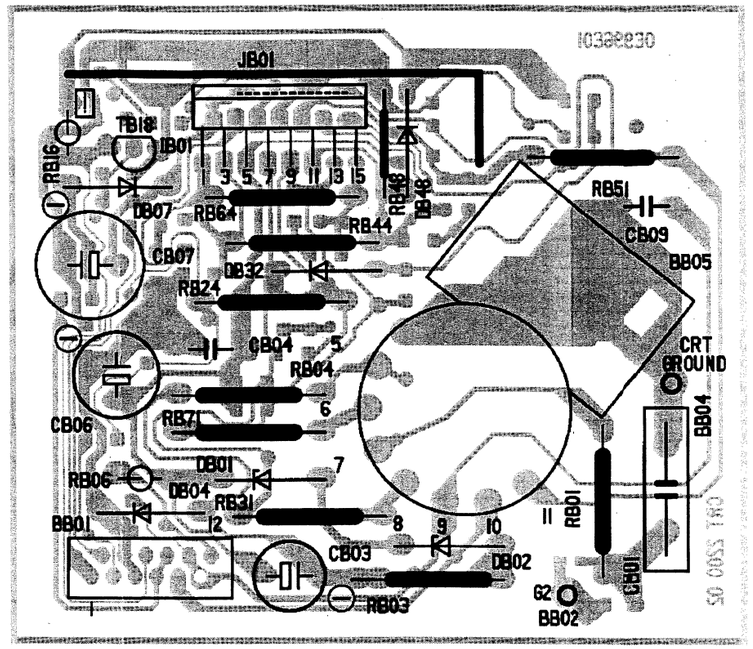
| Tabe | CL24 | CL25 | CL44 | RL06 | RL42 | RL43 | RL44 | RL48 | LL05 | LL10 | LL22 | LL26 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AxxEAS | 510n | JL24 | 2u7 | 2k74 | 4k99 | 61k9 | 2k74 | 31k6 | 10462520 | 18u | 10092890 | 30u5 |
| AxxECY | 560n | 1n5 | 4u7 | 2k74 | 5k9 | 78k7 | 2k74 | 29k4 | 10462530 | 18u | 10095060 | 30u5 |
| A79ECU | 560n | JL24 | 2u7 | 2k74 | 6k19 | 154k | 3k65 | 51k1 | 10462540 | 18u | 10092890 | 30u5 |

# VIDEO AMPLIFIER - AMPLIFICATEURS VIDEO - VIDEOVERSTÄRKER - AMPLIFICATORE VIDEO - AMPLIFICADOR VIDEO

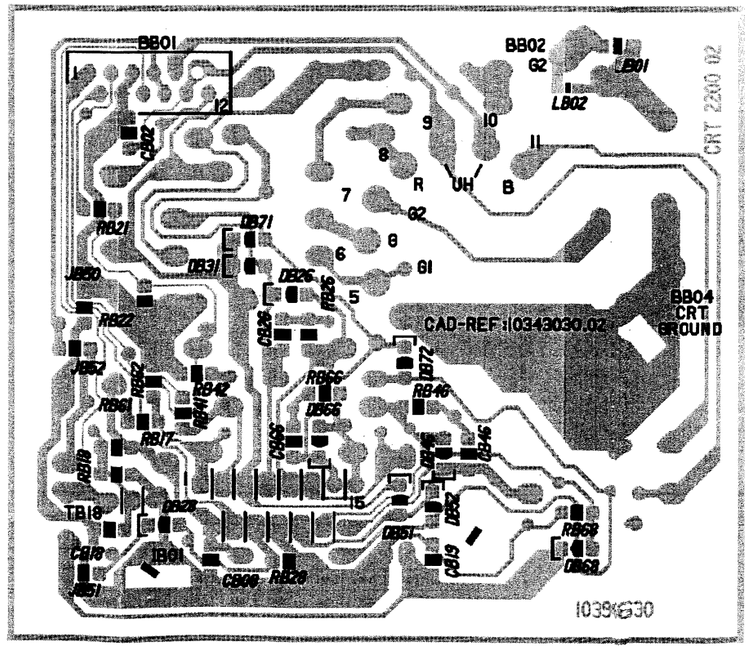



# VIDEO AMPLIFIER BOARD - PLATINE AMPLIFICATEURS VIDEO - VIDEOVERSTÄRKERPLATTE - PIASTRA AMPLIFICATORE VIDEO - PLATINA AMPLIFICADOR VIDEO

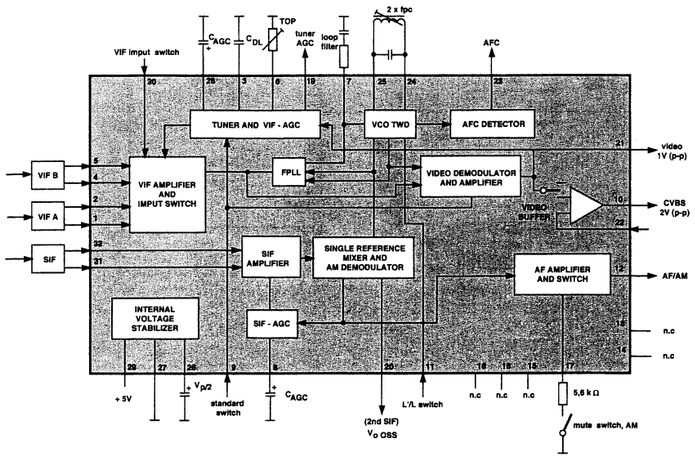
COMPONENT SIDE - CÔTE COMPOSANTS - BESTÜCKUNGSSEITE - LATO COMPONENTI - LADO COMPONENTES



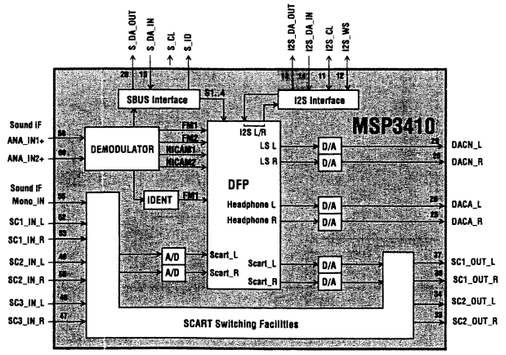

SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDA




## TDA9811 BLOCK DIAGRAM
## MULTISTANDARD VIF - PLL WITH QSS-IF AND AM DEMODULATOR

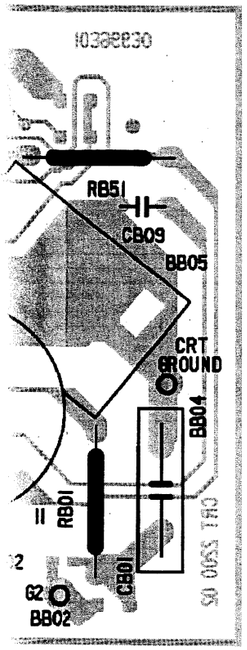



## MSP3400 / MSP3410 BLOCK DIAGRAM
## SOUNDPROCESSOR

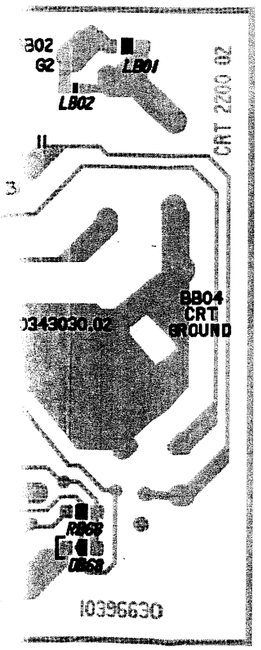


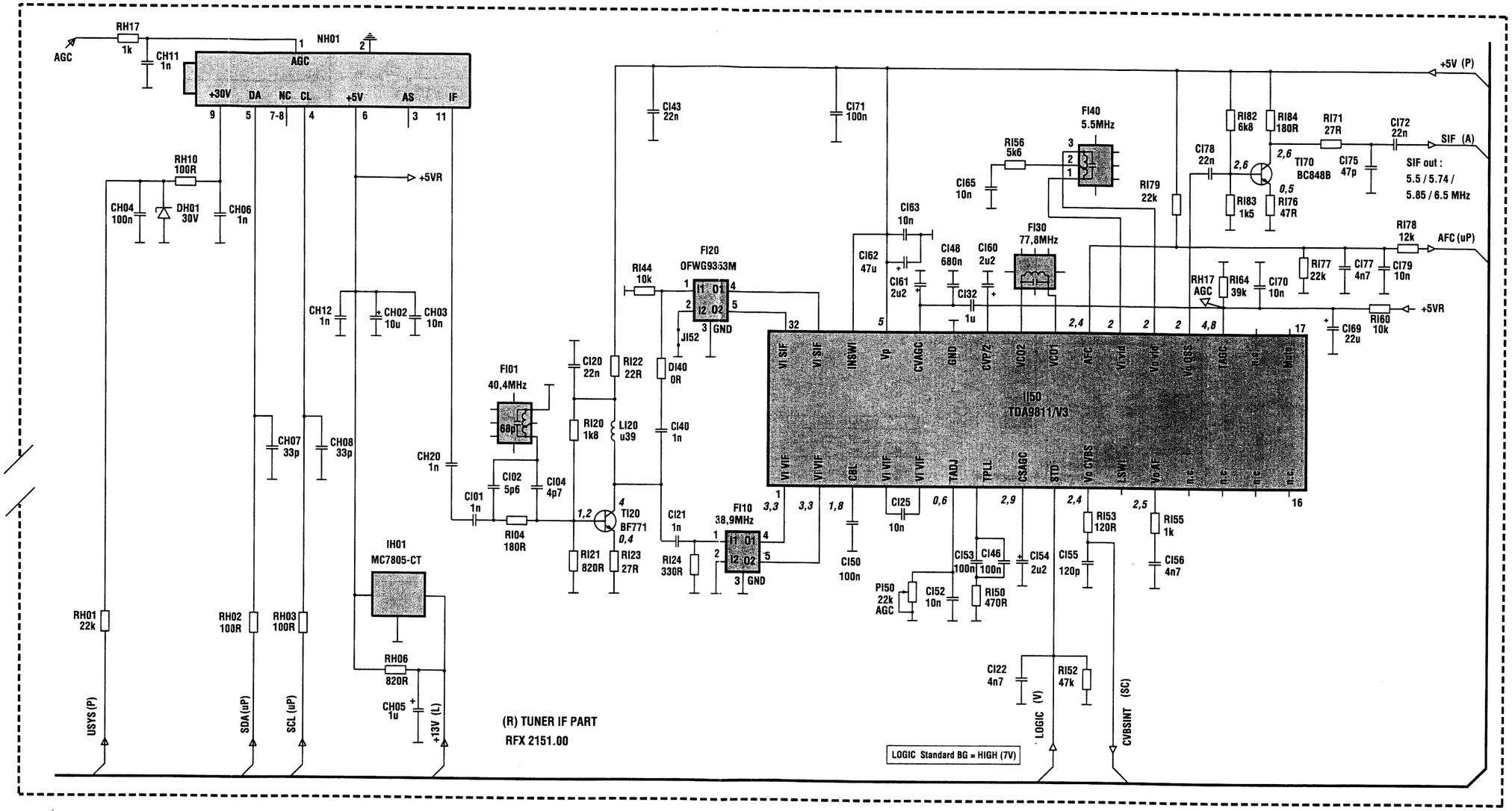
# RFX 2151.00 - TUNER IF PART I/O FOR STANDARD BG ( Stereo )

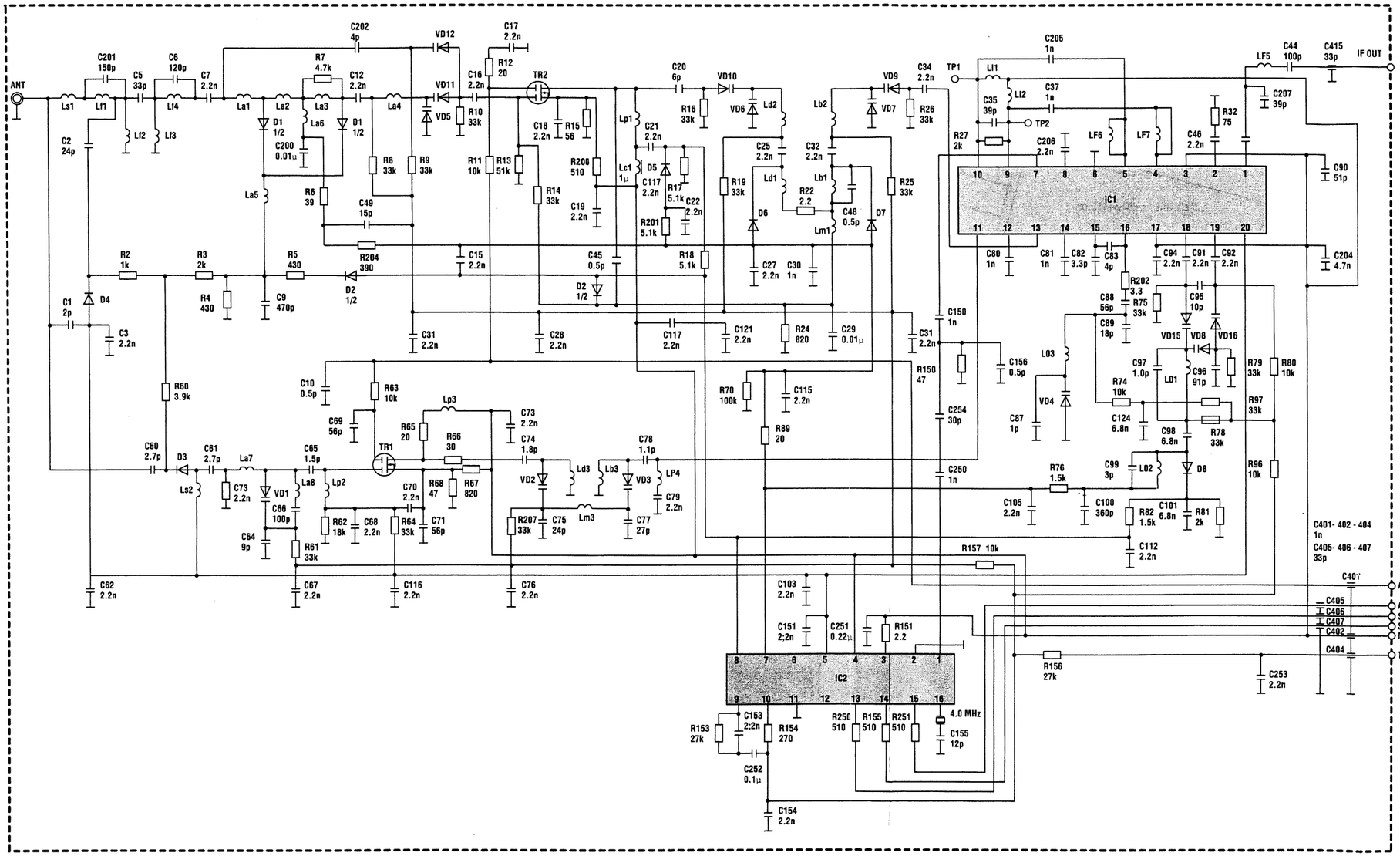
STÜCKUNGSSEITE -
NENTES

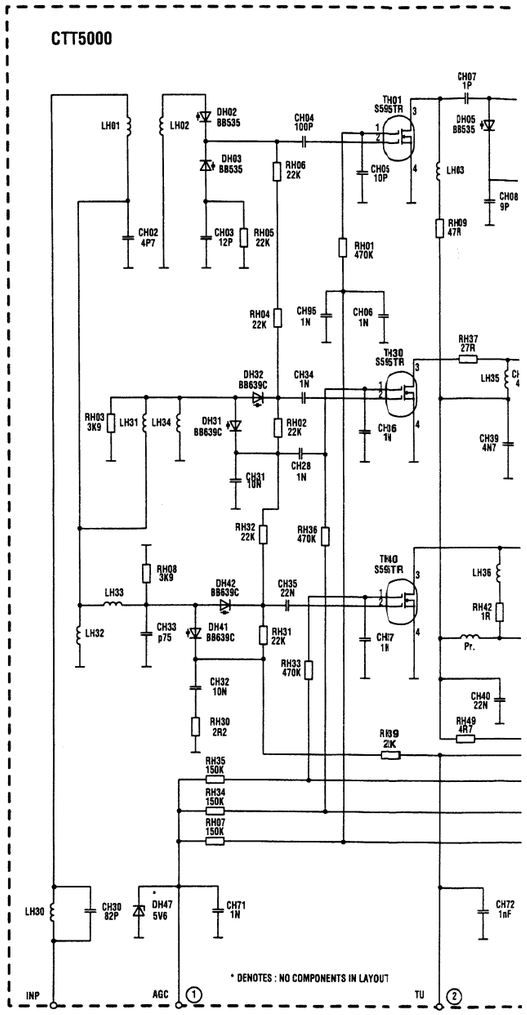



DATURE - LADO SOLDADURAS

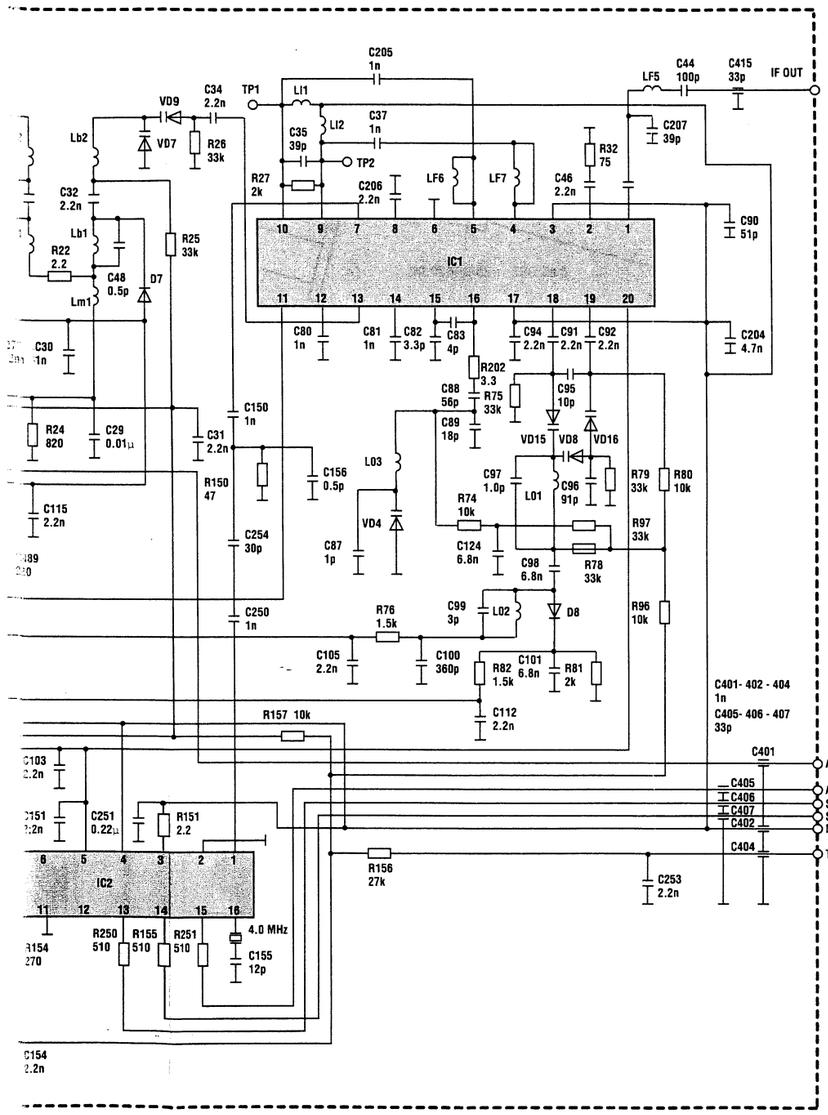


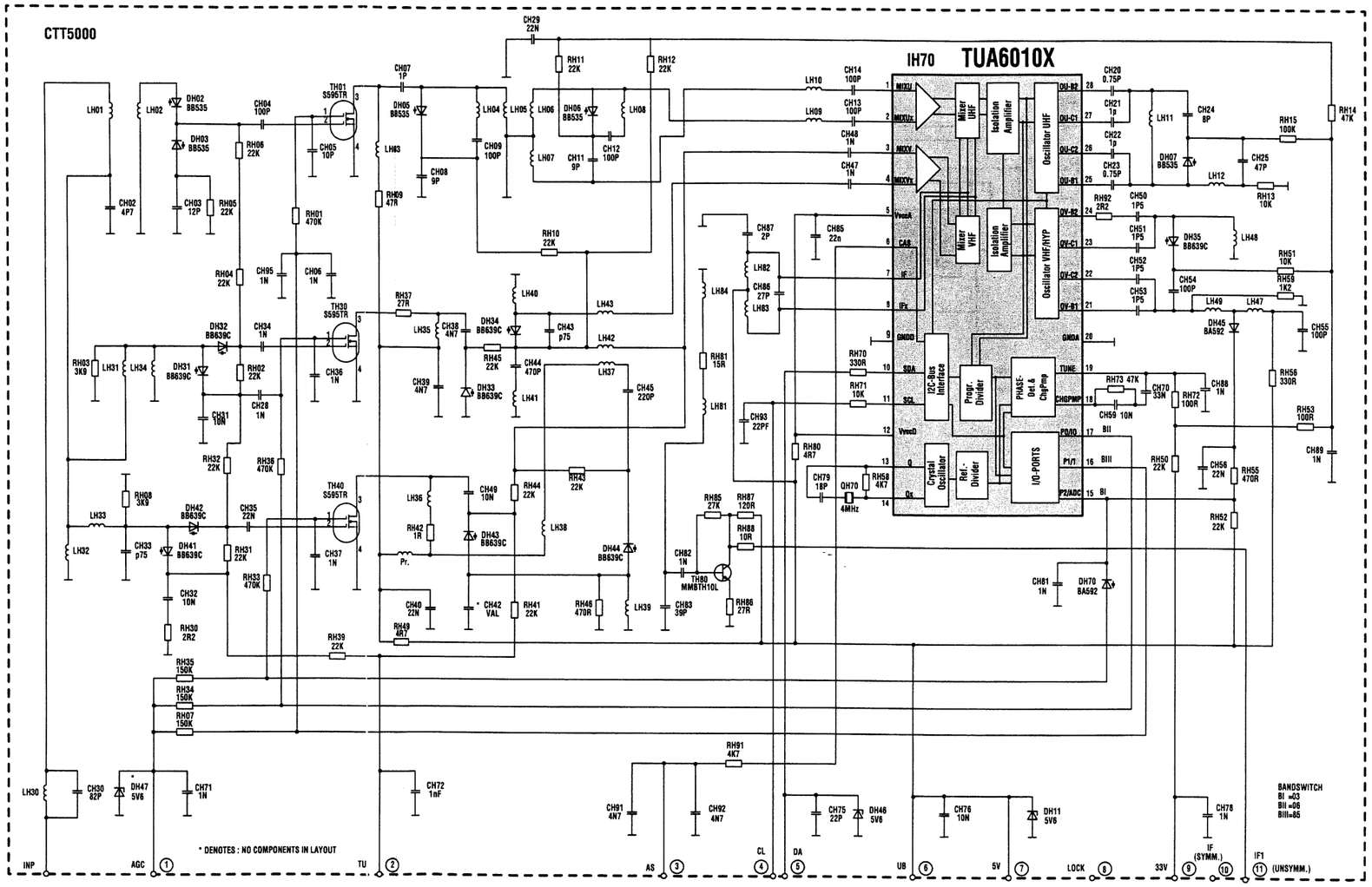




ANT
IF OUT
TP1
TP2
TR1
TR2
IC1
IC2
4.0 MHz
C401- 402 - 404 1n
C405- 406 - 407 33p
AGC
AS
SCL
SDA
MB
TV2

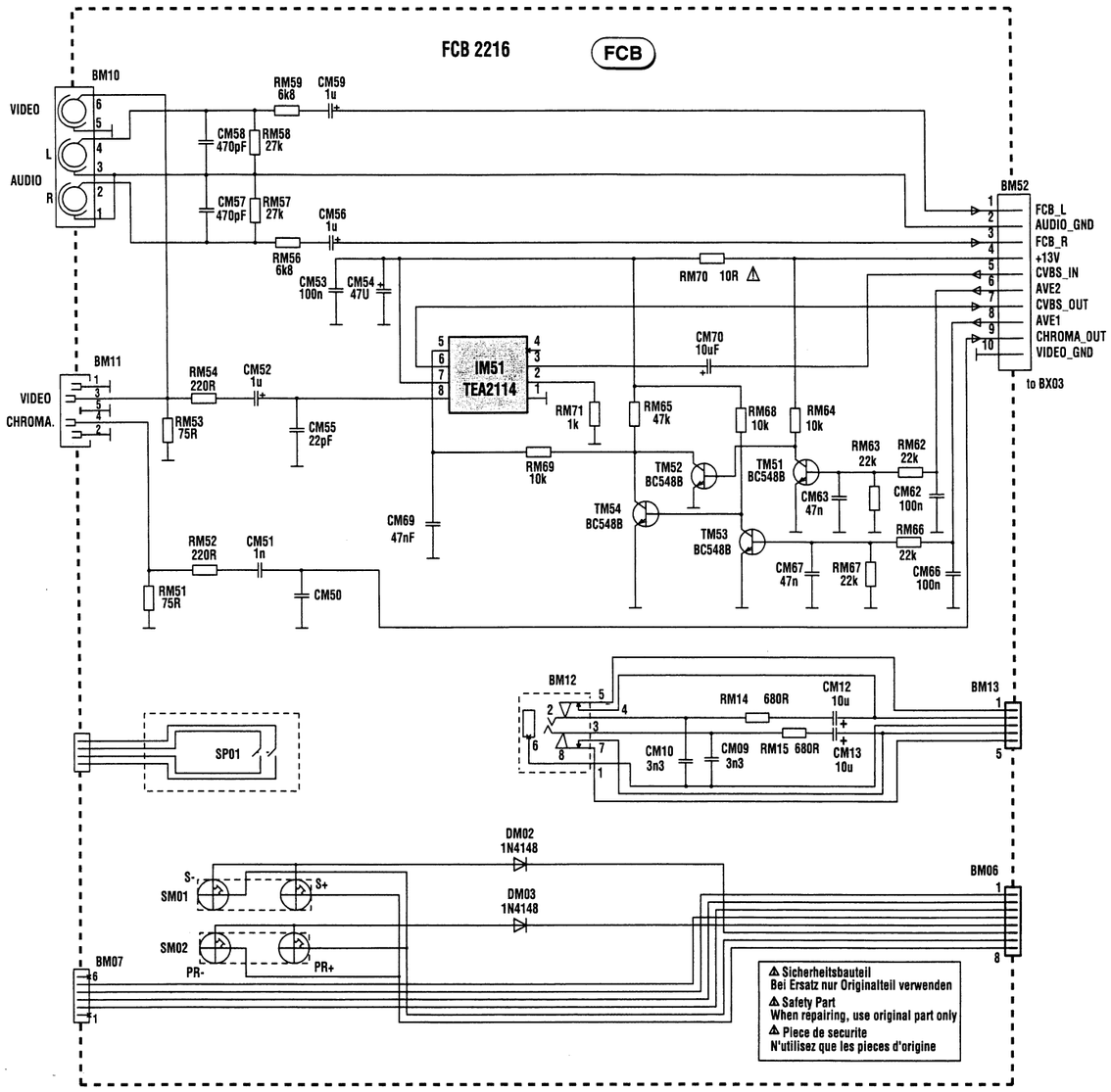

CTT5000
* DENOTES : NO COMPONENTS IN LAYOUT
INP
AGC
TU

# VHF / UHF TUNER CTT5000 ( For information only )

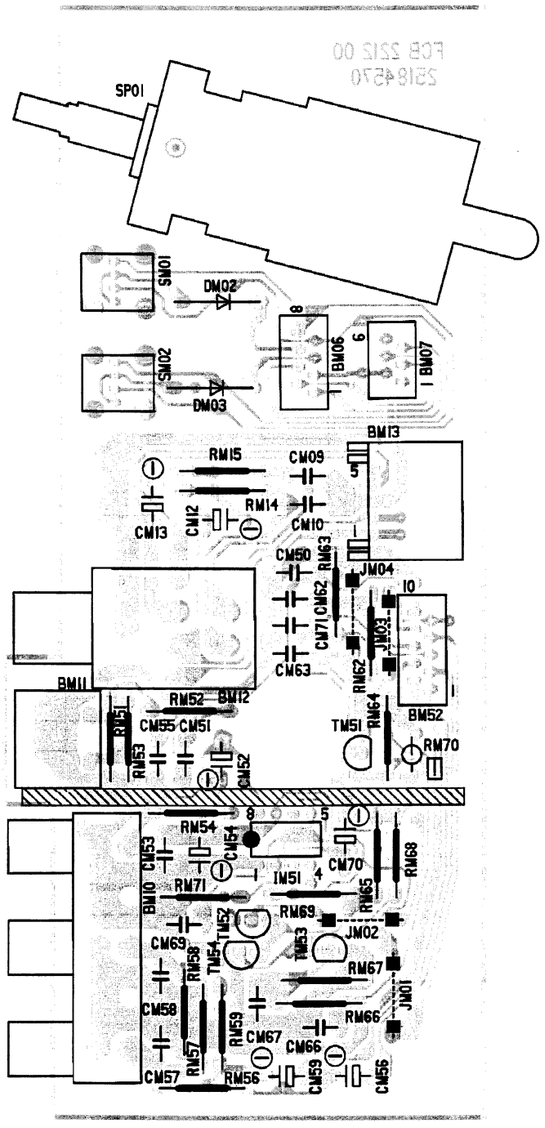


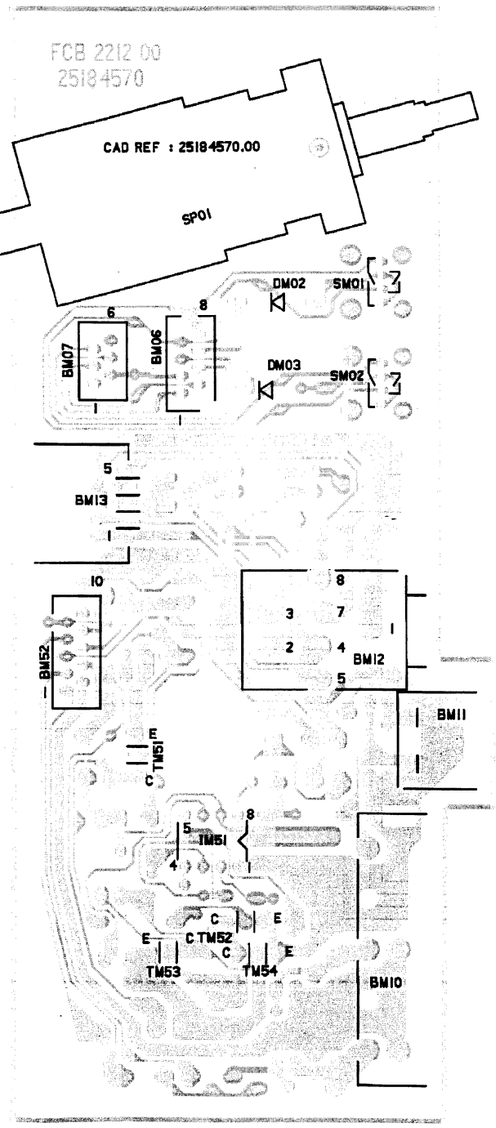
# FRONT CONNECTOR BOARD - MODULE PRISE EN FACADE ET INTERCONNEXION DU CLAVIER - FRONT ANSCHLUSSPLATTE - PIASTRA CONNESSIONE FRONTALE - PLÁTINA MANDOS FRONT




COMPONENT SIDE - COTE COMPOSANTS -
BESTÜCKUNGSSEITE -
LATO COMPONENTI - LADO COMPONENTES




SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE -
LATO SALDATURE - LADO SOLDADURAS



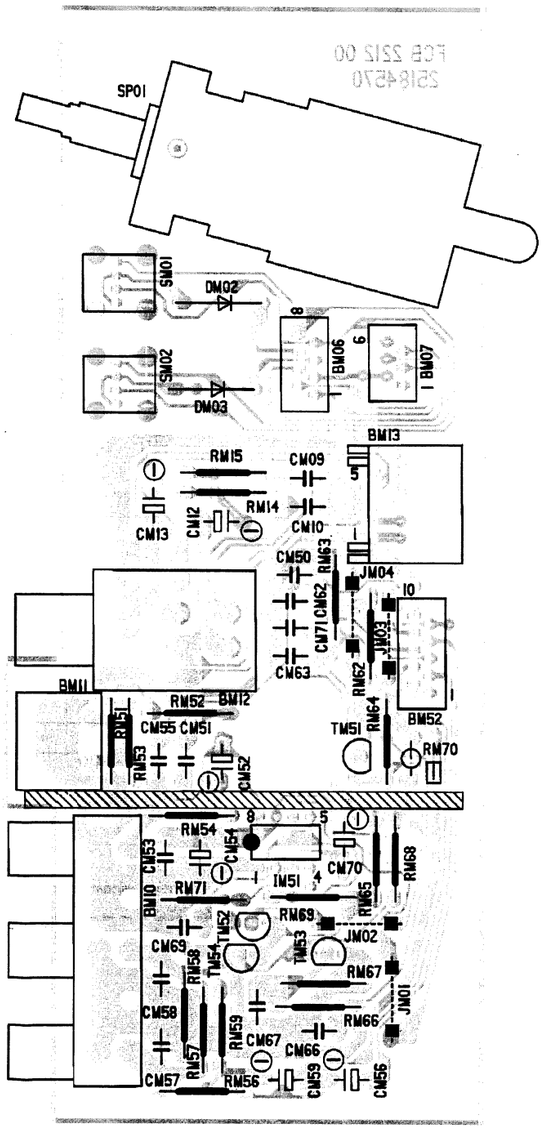
COMPONI

LATO COM

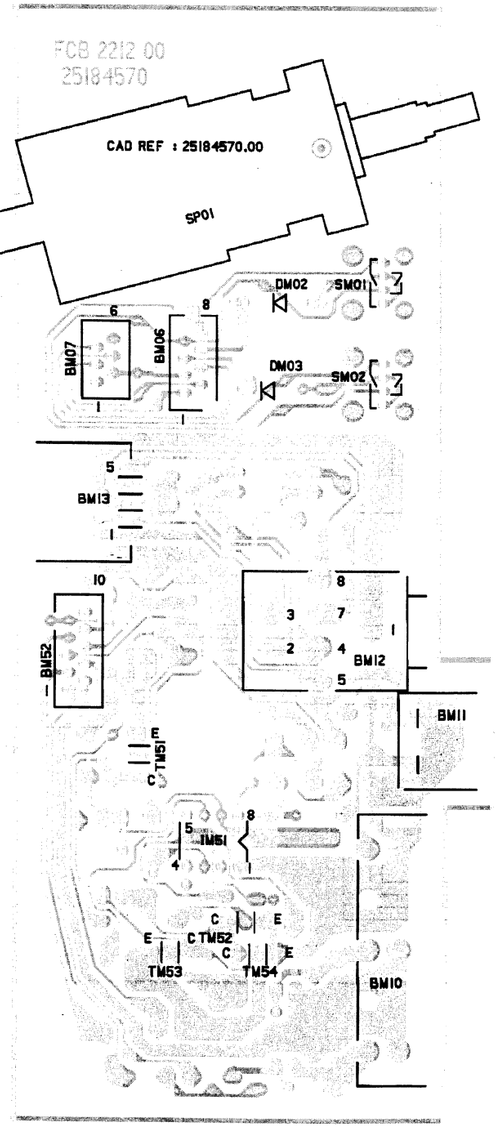
# ON DU CLAVIER - FRONT ANSCHLUSSPLATTE - PIASTRA CONNESSIONE FRONTALE - PLÁTINA MANDOS FRONTAL

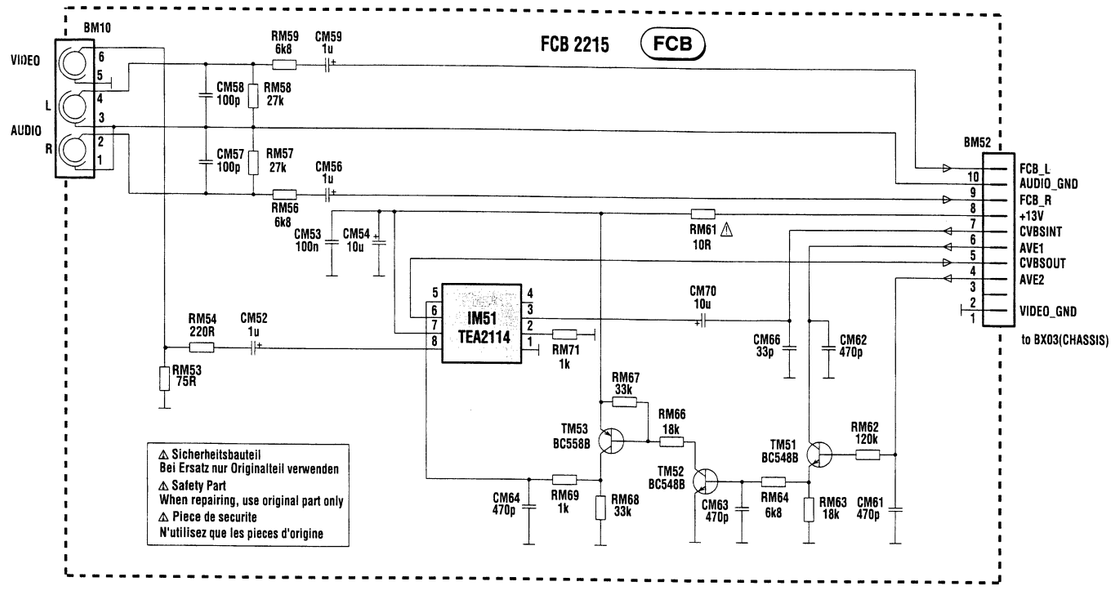
M52
FCB_L
AUDIO_GND
FCB_R
+13V
CVBS_IN
AVE2
CVBS_OUT
AVE1
CHROMA_OUT
VIDEO_GND
to BX03

COMPONENT SIDE - COTE COMPOSANTS -
BESTÜCKUNGSSEITE -
LATO COMPONENTI - LADO COMPONENTES

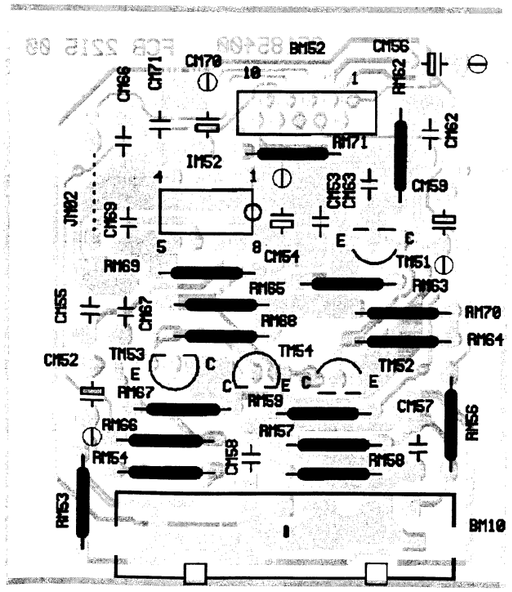



SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE -
LATO SALDATURE - LADO SOLDADURAS

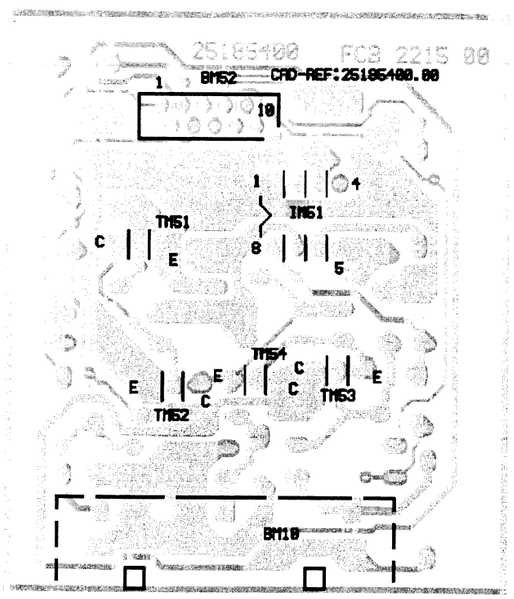


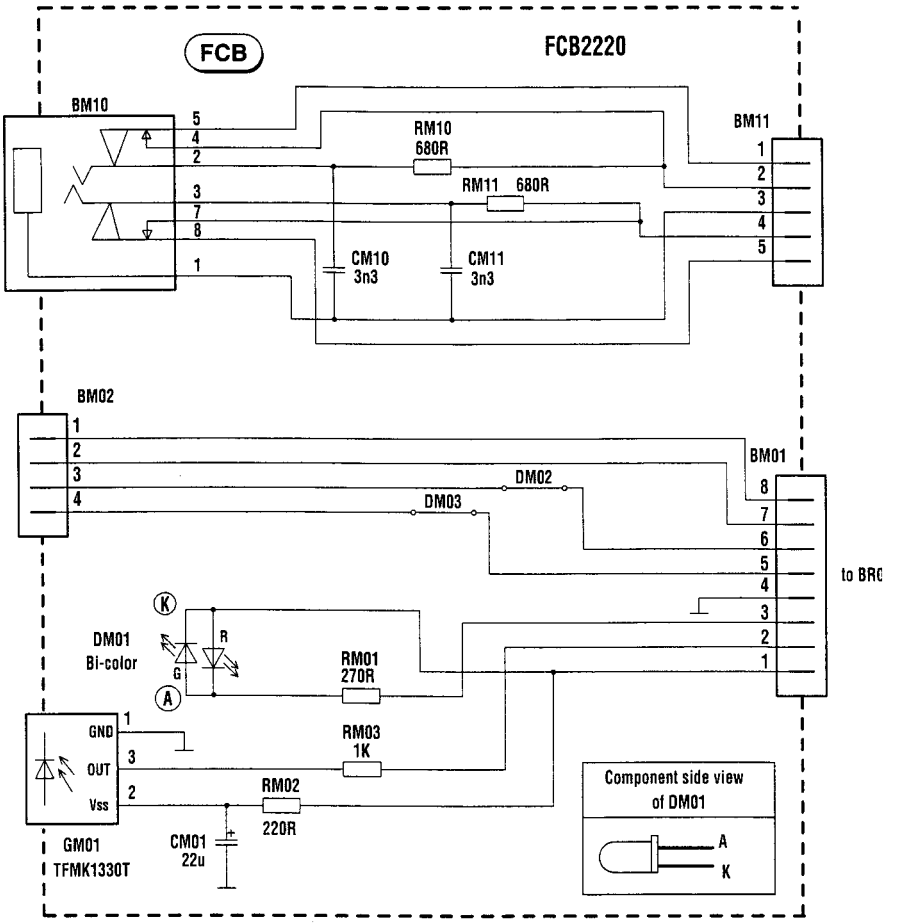

COMPONENT SIDE - COTE COMPOSANTS -
BESTÜCKUNGSSEITE -
LATO COMPONENTI - LADO COMPONENTES



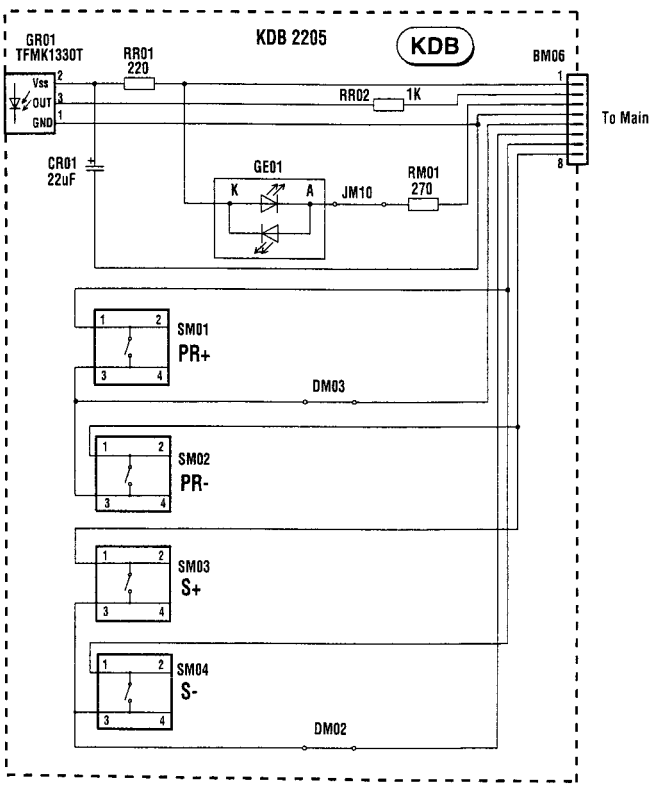

SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE -
LATO SALDATURE - LADO SOLDADURAS



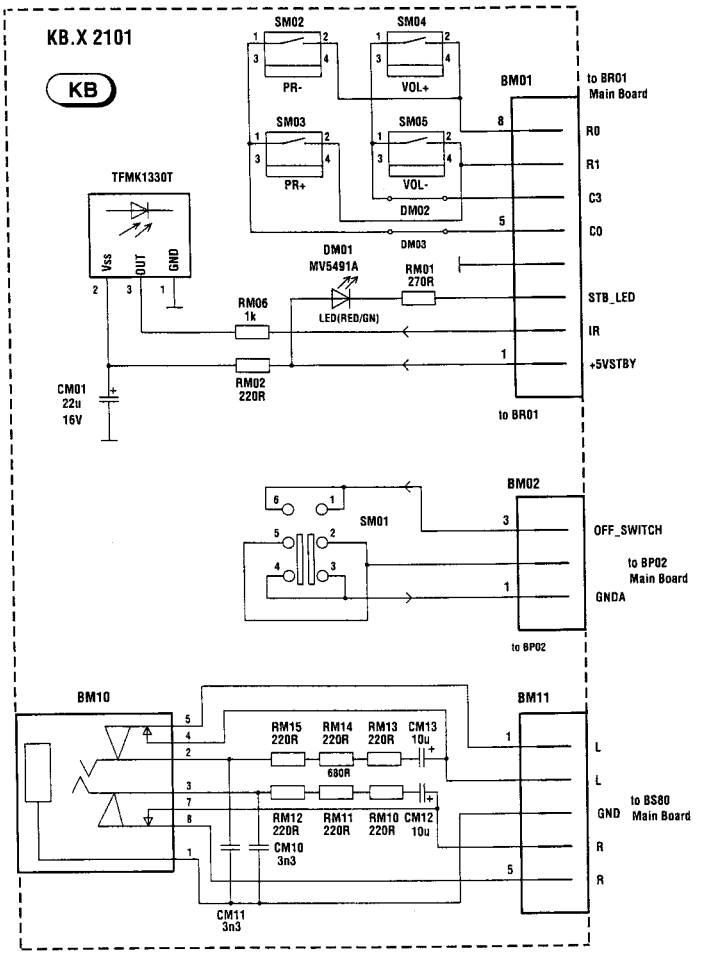
## FRONT CONNECTOR BOARD - PRISES EN FACADE ET INTERCONNEXION DU CLAVIER - FRONT ANSCHLUSSPLATTE - PIASTRA CONNESSIONE FRONTALE - PLÁTINA MANDOS FRONTAL

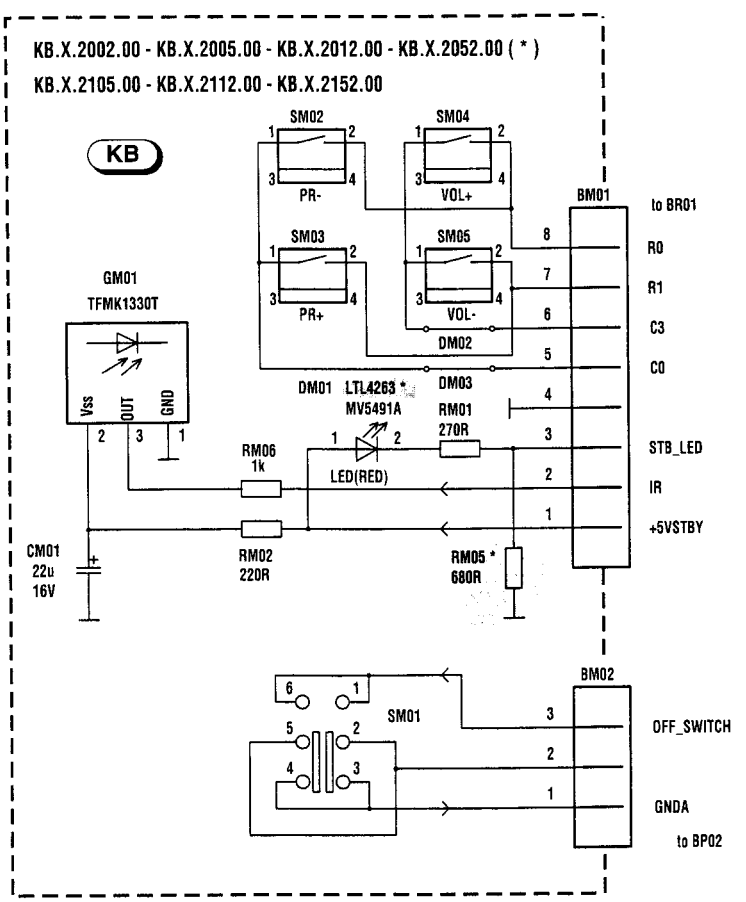



## KEYBOARD MODULE - PLATINE CLAVIER -BEDIENTEILPLATTE - PIASTRA COMANDI - PLATINA TECLADO

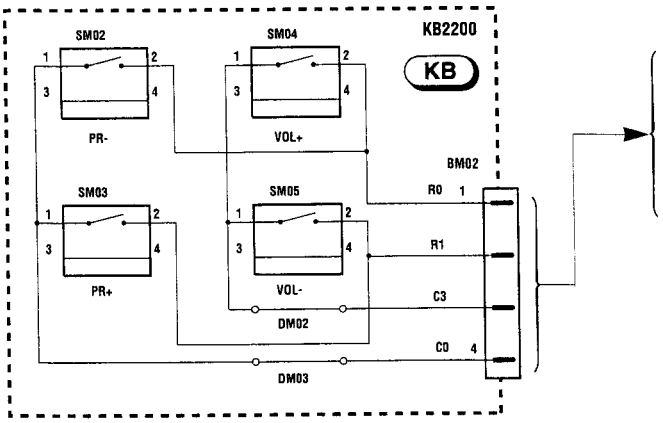


## KEYBOARD MODULE - PLATINE CLAVIER -BEDIENTEILPLATTE - PIASTRA COMANDI - PLATINA TECLADO

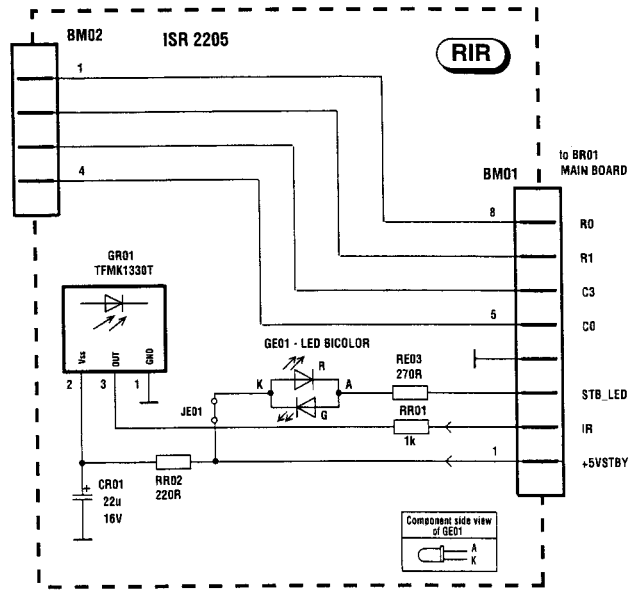


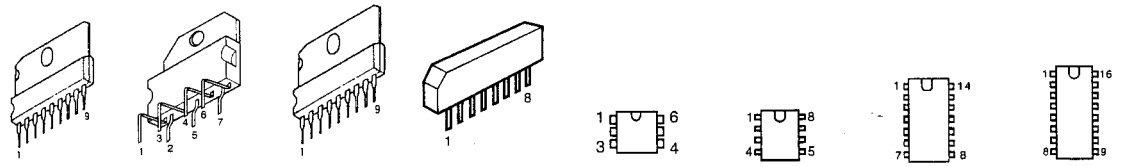
## KEYBOARD MODULE - PLATINE CLAVIER - BEDIENTEILPLATTE PIASTRA COMANDI - PLATINA TECLADO



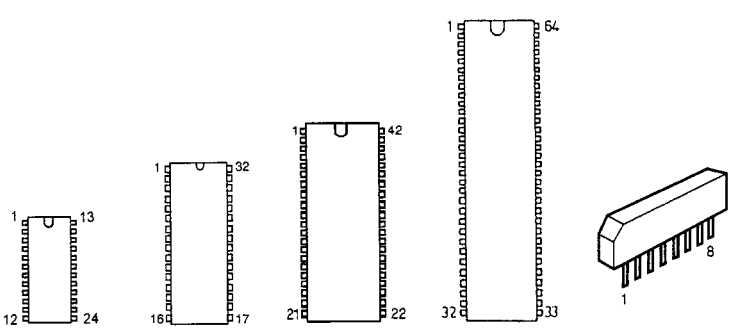

## INFRARED RECEIVER MODULE - RECEPTEUR INFRAROUGE - INFRAROTEMPFÄNGER-PLATTE - PIASTRA RICEVITORE INFRAROSSI - PLATINA INFRAROT



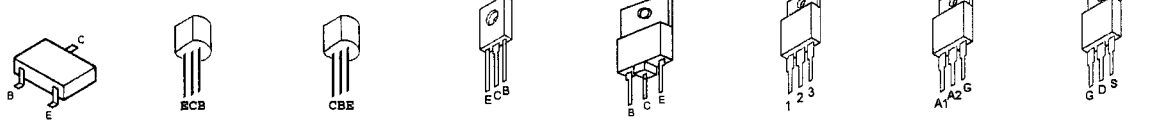

## INTEGRATED CIRCUITS AND TRANSISTORS OUTLINE - CIRCUITS INTEGRES ET TRANSISTORS INTEGRIERTE SCHALTUNGEN UND TRANSISTOREN - CIRCUITI INTEGRATI TRANSISTOR CIRCUITOS INTEGRADOS Y TRANSISTORES



TDA 8139 | TDA 8177 | TEA 5101B | SDA 9187 SDA 9188 | 4N25TV | TDA4605 ST24C04-B1 | STV2180 | STV2145



TDA 7263 | TDA9811 | TDA9811 | MPS3400 MPS3410 | LA7221



BC 847B BC 858 B/C BC 848 A/B/C BF 771 | BF 422 BF423 | BC 337 BC 548B BC 558B | BP 681 | BUH 517 TH | 7805 7812 | BT806 -600C | STP6 NA60F1

## Ersatzteile · Spare parts list · Liste de pièces de rechange · Lista parti di ricambio Lista de piezas de recambio

**Wichtig:** Bei Ersatzteilbestellungen bitte unbedingt die entsprechende Bestellnummer angeben!
**N. B.:** When demanding Spare Parts it is absolutely necessary to quote the corresponding part number!
**Important:** Lors d'une commande de pièces de rechange, prière d'indiquer et tout cas le numéro de la pièce!
**Importante:** Ordinare sempre con il numero correspondenti di codice!
**Importante:** Pedir siempre los recambios con el numero correspondiente codigo!

| Pos. | Art.-Nr<br>Part No.<br>Code | Bezeichnung | Part | Désignation |
|---|---|---|---|---|
| | | **CHASSIS TX92F** | | |
| | | **MOD./AUSTAUSCHTEILE:** | **EXCHANGE PARTS:** | **ECHANGE PLATINE:** |
| TUNER | 103.671.20 | TELE9-X009A TUNER HYPERBAND | TELE9-X009A TUNER | TELE9-X009A TUNER |
| CRT | 103.985.90 | CRTX2111 BILDROHRANSCHLUSS | CRT2111 PCB CRT | CRT2111 PL TUBE CATHODIQUE |

# Ersatzteile · Spare parts list · Liste de pièces de rechange · Lista parti di ricambio Lista de piezas de recambio

**Wichtig:** Bei Ersatzteilbestellungen bitte unbedingt die entsprechende Bestellnummer angeben!
**N. B.:** When demanding Spare Parts it is absolutely necessary to quote the corresponding part number!
**Important:** Lors d'une commande de pièces de rechange, prière d'indiquer et tout cas le numéro de la pièce!
**Importante:** Ordinare sempre con il numero correspondenti di codice!
**Importante:** Pedir siempre los recambios con el numero correspondiente codigo!

| Pos. | Art.-Nr<br>Part No.<br>Code | Bezeichnung | Part | Désignation |
|---|---|---|---|---|
| | | **CHASSIS-TEILE** | **CHASSIS PARTS** | **CHASSIS-PARTIE** |
| BB01 | 671.383.10 | Stiftleiste 12polig MICS 12 SW | Contact strip 12-pole black | Connecteur male 12 broches |
| BB04 | 103.708.40 | Kabel mit Massefeder | Wire with earth spring | Cable Ressort de masse |
| BB05 | 802.988.00 | Bildrohrfassung 10polig | Cathode ray tube socket | Support tube cathodique |
| BL01A | 102.381.10 | Halter Netzleitung auf LTP. | Holder | Support |
| BM01 | 671.381.10 | Stiftleiste 8polig MICS08 SW | 8 pin wafer black | Barrette de contact 8 noir |
| BP01A | 102.381.10 | Halter Netzleitung auf LTP. | Holder | Support |
| BP02 | 905.819.40 | Stiftleiste 3polig US stehend | 3 pin contact housing | Culot a 3 broches |
| BR01 | 671.381.10 | Stiftleiste 8polig MICS08 SW | 8 pin wafer black | Barrette de contact 8 noir |
| BS80 | 604.307.76 | Stiftleiste 5polig stehend | Contact strip 5-pole | Connecteur male 5 broches |
| BS90 | 309.599.90 | Stiftleiste 2polig US rot stehend | 2 pin contact housing red | Culot a 2 broches rouge |
| BS91 | 110.955.70 | Stiftleiste 2polig US grün stehend | 2 pin contact housing green | Culot a 2 broches vert |
| BV01 | 103.458.80 | Leitung mit Stecker 12polig 380mm | Cable with socket 12-pole 380mm | Cable avec fiche 12-polaire 380mm |
| BV01 | 508.564.50 | Leitung mit Stecker 12polig 500mm vom Chassis auf FCB | Cable with socket 12-pole | Cable avec fiche 12-pol. |
| BV01 | 671.383.10 | Stiftleiste 12polig MICS 12 SW | Contact strip 12-pole black | Connecteur male 12 broches |
| BX01 | 906.172.60 | Buchse Euro AV (SCART) | Scart socket | Prise femelle peritelevision |
| BX02 | 906.172.60 | Buchse Euro AV (SCART) | Scart socket | Prise femelle peritelevision |
| BX03 | 671.382.10 | Stiftleiste 10polig schwarz | Contact strip 10-pole black | Connecteur male 10 broches |
| BX50 | 671.860.11 | Stiftleiste 4polig liegend | Contact strip 4-pole | Connecteur male 4 broches |
| CB01 | 140.364.50 | 10N 3KV Keramik-Kondensator | 10N 3KV C cap | 10N 3KV C ceramique |
| CB03 | 130.394.30 | 10UF 250V 20% Elko | 10UF 250V 20% E cap | 10UF 250V 20% CC |
| CB06 | 130.394.30 | 10UF 250V 20% Elko | 10UF 250V 20% E cap | 10UF 250V 20% CC |
| CB09 | 140.352.80 | 100PF 1KV 20% Keramik-Kondensator | 100PF 1KV 20% C cap | 100PF 1kV 20% C ceramique |
| CL07 | 140.358.70 | 10NF 400V 5% Kondensator | 10NF 400V 5% Capacitor | 10NF 400V 5% Condensateur |
| CL10 | 140.352.70 | 330PF 1KV 10% Keramik-Kondensator | 330PF 1KV 10% C cap | 330PF 1kV 10% CC |
| CL11 | 130.394.30 | 10UF 250V 20% Elko | 10UF 250V 20% E cap | 10UF 250V 20% CC |
| CL14 | 140.352.70 | 330PF 1KV 10% Keramik-Kondensator | 330PF 1KV 10% C cap | 330PF 1kV 10% CC |
| CL21 | 100.427.50 | 14,4N 1K6V 3,5% Filmkondensator | 14,4N 1K6V 3,5% Film cap | 14,4N 1K6V 3,5% Condensateur |
| CL21 | 103.491.50 | 13,5N 1,6KV 3,5% Filmkondensator | 13,5N 1,6KV 3,5% Film cap | 13,5N 1,6KV 3,5% Condensateur |
| CL21 | 103.491.60 | 16N2F 1K6V 3,5% Filmkondensator | 16N2F 1K6V 3,5% Film cap | 16N2F 1K6V 3,5% Condensateur |
| CL22 | 102.420.70 | 30NF 400V 5% Filmkondensator | 30NF 400V 5% Film cap | 30NF 400V 5% Condensateur |
| CL22 | 102.635.40 | 27N 400V 5% Filmkondensator | 27N 400V 5% Film cap | 27N 400V 5% Condensateur |
| CL24 | 100.779.60 | 510N 250V 5% Filmkondensator | 510N 250V 5% Film cap | 510N 250V 5% Condensateur film |
| CL24 | 103.763.60 | 560N0F 250V 5% Filmkondensator | 560N0F 250V 5% Film cap | 560N0F 250V 5% Condensateur |
| CL26 | 100.608.30 | 1U0F 250V 20% Elko | 1U0F 250V 20% E cap | 1U0F 250V 20% C chimique |
| CL44 | 101.611.70 | 2U7 100V 10% MP-Kondensator | 2U7 100V 10% MPoly cap | 2U7 100V 10% C MP |
| CP01 | 103.139.00 | 100NF 275V 20% MP-Kondensator | 0U1F 275V 20% MPoly cap | 0U1F 275V 20% C MP |
| CP02 | 103.139.00 | 100NF 275V 20% MP-Kondensator | 0U1F 275V 20% MPoly cap | 0U1F 275V 20% C MP |
| CP03 | 102.562.10 | 68NF 250V 20% MP-Kondensator | 68NF 250V 20% MPoly cap | 68NF 250V 20% C MP |
| CP07 | 100.971.70 | 4N7F 1KV Keramik-Kondensator | 4N7F 1KV C cap | 4N7F 1KV C ceramique |
| CP08 | 203.387.40 | 1N5F 1KV 10% Keramik-Kondensator | 1N5F 1KV 10% C cap | 1N5F 1KV 10% C ceramique |
| CP09 | 100.971.70 | 4N7F 1KV Keramik-Kondensator | 4N7F 1KV C cap | 4N7F 1KV C ceramique |
| CP11 | 434.248.00 | 150UF 385V Elko | 150UF 385V E cap | 150UF 385V CC |
| CP13 | 434.029.00 | 1500PF 1KV Kondensator | 1500PF 1KV Cap | 1500PF 1KV Condensateur |
| CP21 | 140.342.40 | 330PF 400V 20% Keramikkondensator | 330PF 400V 20% C cap | 330PF 400V 20% C ceramique |
| CP24 | 140.342.40 | 330PF 400V 20% Keramikkondensator | 330PF 400V 20% C cap | 330PF 400V 20% C ceramique |
| CP49 | 431.068.00 | 1NF 400V 20% Keramik-Kondensator | 1NF 400V 20% C cap | 1NF 400V 20% C ceramique |
| CP51 | 100.993.90 | 470P0F 2KV Keramik-Kondensator | 470P0F 2KV C cap | 470P0F 2KV C ceramique |

# Ersatzteile · Spare parts list · Liste de pièces de rechange · Lista parti di ricambio Lista de piezas de recambio

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**Importante:** Pedir siempre los recambios con el numero correspondiente codigo!

| Pos. | Art.-Nr<br>Part No.<br>Code | Bezeichnung | Part | Désignation |
|---|---|---|---|---|
| CP52 | 102.441.20 | 100UF 200V 20% Elko | 100UF 200V 20% E cap | 100UF 200V 20% CC |
| CP53 | 140.342.40 | 330PF 400V 20% Keramikkondensator | 330PF 400V 20% C cap | 330PF 400V 20% C ceramique |
| DB04 | 110.734.60 | 1N4004 Diode | 1N4004 Diode | 1N4004 Diode |
| DB07 | 160.081.60 | 1N4001 Diode | 1N4001 Diode | 1N4001 Diode |
| DB26 | 160.124.50 | LL4148 Diode SMD | LL4148 Diode | LL4148 Diode |
| DB31 | 101.550.30 | BAV103 Diode SMD | BAV103 Diode SMD | BAV103 Diode SMD |
| DB31 | 102.224.20 | BAV203 Diode SMD | BAV203 Diode SMD | BAV203 Diode SMD |
| DB32 | 440.444.07 | BAV21 Diode | BAV21 Diode | BAV21 Diode |
| DB46 | 160.124.50 | LL4148 Diode SMD | LL4148 Diode | LL4148 Diode |
| DB48 | 160.124.50 | LL4148 Diode SMD | LL4148 Diode | LL4148 Diode |
| DB51 | 101.550.30 | BAV103 Diode SMD | BAV103 Diode SMD | BAV103 Diode SMD |
| DB51 | 102.224.20 | BAV203 Diode SMD | BAV203 Diode SMD | BAV203 Diode SMD |
| DB52 | 101.550.30 | BAV103 Diode SMD | BAV103 Diode SMD | BAV103 Diode SMD |
| DB52 | 102.224.20 | BAV203 Diode SMD | BAV203 Diode SMD | BAV203 Diode SMD |
| DB66 | 160.124.50 | LL4148 Diode SMD | LL4148 Diode | LL4148 Diode |
| DB68 | 160.124.50 | LL4148 Diode SMD | LL4148 Diode | LL4148 Diode |
| DB71 | 101.550.30 | BAV103 Diode SMD | BAV103 Diode SMD | BAV103 Diode SMD |
| DB71 | 102.224.20 | BAV203 Diode SMD | BAV203 Diode SMD | BAV203 Diode SMD |
| DB72 | 101.550.30 | BAV103 Diode SMD | BAV103 Diode SMD | BAV103 Diode SMD |
| DB72 | 102.224.20 | BAV203 Diode SMD | BAV203 Diode SMD | BAV203 Diode SMD |
| DC01 | 804.441.40 | ZPD5,1 Z-Diode | ZPD5,1 Z-Diode | ZPD5,1 Z-Diode |
| DF01 | 440.092.09 | 1N4148 Diode | 1N4148 Diode | 1N4148 Diode |
| DF02 | 160.124.50 | LL4148 Diode SMD | LL4148 Diode | LL4148 Diode |
| DF07 | 160.300.60 | ZMM15 Z-Diode SMD | ZMM15 Z-Diode | ZMM15 Z-Diode |
| DF11 | 103.518.80 | P4KE56A Z-Diode | P4KE56A Z-Diode | P4KE56A Z-Diode |
| DF30 | 101.550.30 | BAV103 Diode SMD | BAV103 Diode SMD | BAV103 Diode SMD |
| DF30 | 102.224.20 | BAV203 Diode SMD | BAV203 Diode SMD | BAV203 Diode SMD |
| DF31 | 101.300.90 | BA157 Diode | BA157 Diode | BA157 Diode |
| DH01 | 204.753.40 | BZX55B30 Z-Diode | BZX55B30 Z-Diode | BZX55B30 Z-Diode |
| DI01 | 160.121.30 | BA582 Diode SMD | BA582 Diode SMD | BA582 Diode SMD |
| DI51 | 160.121.30 | BA582 Diode SMD | BA582 Diode SMD | BA582 Diode SMD |
| DL06 | 101.550.30 | BAV103 Diode SMD | BAV103 Diode SMD | BAV103 Diode SMD |
| DL06 | 102.224.20 | BAV203 Diode SMD | BAV203 Diode SMD | BAV203 Diode SMD |
| DL07 | 101.550.30 | BAV103 Diode SMD | BAV103 Diode SMD | BAV103 Diode SMD |
| DL07 | 102.224.20 | BAV203 Diode SMD | BAV203 Diode SMD | BAV203 Diode SMD |
| DL08 | 160.124.50 | LL4148 Diode SMD | LL4148 Diode | LL4148 Diode |
| DL11 | 101.300.90 | BA157 Diode | BA157 Diode | BA157 Diode |
| DL12 | 309.617.10 | BY397 Diode | BY397 Diode | BY397 Diode |
| DL13 | 309.617.10 | BY397 Diode | BY397 Diode | BY397 Diode |
| DL15 | 160.124.50 | LL4148 Diode SMD | LL4148 Diode | LL4148 Diode |
| DL21 | 160.083.70 | BY228 Diode | BY228 Diode | BY228 Diode |
| DL22 | 160.091.20 | BYW76 Diode | BYW76 Diode | BYW76 Diode |
| DL25 | 101.300.90 | BA157 Diode | BA157 Diode | BA157 Diode |
| DL26 | 101.300.90 | BA157 Diode | BA157 Diode | BA157 Diode |
| DL34 | 160.124.50 | LL4148 Diode SMD | LL4148 Diode | LL4148 Diode |
| DL38 | 440.092.09 | 1N4148 Diode | 1N4148 Diode | 1N4148 Diode |
| DL41 | 440.444.07 | BAV21 Diode | BAV21 Diode | BAV21 Diode |
| DL60 | 160.124.50 | LL4148 Diode SMD | LL4148 Diode | LL4148 Diode |
| DL61 | 160.124.50 | LL4148 Diode SMD | LL4148 Diode | LL4148 Diode |
| DL62 | 160.124.50 | LL4148 Diode SMD | LL4148 Diode | LL4148 Diode |
| DL63 | 309.488.10 | BZX55C20 Z-Diode | BZX55C20 Z-Diode | BZX55C20 Z-Diode |
| DM01 | 100.367.30 | MV5491A LED-Diode rot/grün | MV5491A LED-Diode | MV5491A LED-Diode |
| DM01 | 404.805.50 | Halter LED | LED holder | Support LED |

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| Pos. | Art.-Nr<br>Part No.<br>Code | Bezeichnung | Part | Désignation |
|---|---|---|---|---|
| DP06 | 102.661.30 | M100M Diode | M100M Diode | M100M Diode |
| DP07 | 102.661.30 | M100M Diode | M100M Diode | M100M Diode |
| DP08 | 102.661.30 | M100M Diode | M100M Diode | M100M Diode |
| DP09 | 102.661.30 | M100M Diode | M100M Diode | M100M Diode |
| DP13 | 160.095.80 | MUR160 Diode | MUR160 Diode | MUR160 Diode |
| DP17 | 204.754.20 | ZPD15V Z-Diode | ZPD15V Z-Diode | ZPD15V Z-Diode |
| DP21 | 101.300.90 | BA157 Diode | BA157 Diode | BA157 Diode |
| DP22 | 110.736.70 | BZX55C11 Z-Diode | BZX55C11 Z-Diode | BZX55C11 Z-Diode |
| DP23 | 160.124.50 | LL4148 Diode SMD | LL4148 Diode | LL4148 Diode |
| DP24 | 101.300.90 | BA157 Diode | BA157 Diode | BA157 Diode |
| DP32 | 160.124.50 | LL4148 Diode SMD | LL4148 Diode | LL4148 Diode |
| DP40 | 101.300.90 | BA157 Diode | BA157 Diode | BA157 Diode |
| DP41 | 804.441.20 | ZPD2,7 Z-Diode | ZPD2,7 Z-Diode | ZPD2,7 Z-Diode |
| DP44 | 440.092.09 | 1N4148 Diode | 1N4148 Diode | 1N4148 Diode |
| DP45 | 160.124.50 | LL4148 Diode SMD | LL4148 Diode | LL4148 Diode |
| DP50 | 160.081.20 | BA159 Diode | BA159 Diode | BA159 Diode |
| DP51 | 160.085.60 | BY399S Diode | BY399S Diode | BY399S Diode |
| DP53 | 160.084.80 | BY297 Diode | BY297 Diode | BY297 Diode |
| DP54 | 160.081.60 | 1N4001 Diode | 1N4001 Diode | 1N4001 Diode |
| DP55 | 160.089.00 | BYV10-20 Diode | BYV10-20 Diode | BYV10-20 Diode |
| DP61 | 160.124.50 | LL4148 Diode SMD | LL4148 Diode | LL4148 Diode |
| DR03 | 160.124.50 | LL4148 Diode SMD | LL4148 Diode | LL4148 Diode |
| DS10 | 204.750.20 | BZX85C8V2 Z-Diode | BZX85C8V2 Z-Diode | BZX85C8V2 Z-Diode |
| DS40 | 101.550.30 | BAV103 Diode SMD | BAV103 Diode SMD | BAV103 Diode SMD |
| DS40 | 102.224.20 | BAV203 Diode SMD | BAV203 Diode SMD | BAV203 Diode SMD |
| DS41 | 101.550.30 | BAV103 Diode SMD | BAV103 Diode SMD | BAV103 Diode SMD |
| DS41 | 102.224.20 | BAV203 Diode SMD | BAV203 Diode SMD | BAV203 Diode SMD |
| DT01 | 160.124.50 | LL4148 Diode SMD | LL4148 Diode | LL4148 Diode |
| DT02 | 160.124.50 | LL4148 Diode SMD | LL4148 Diode | LL4148 Diode |
| DT03 | 160.124.50 | LL4148 Diode SMD | LL4148 Diode | LL4148 Diode |
| DT04 | 160.124.50 | LL4148 Diode SMD | LL4148 Diode | LL4148 Diode |
| DV03 | 440.092.09 | 1N4148 Diode | 1N4148 Diode | 1N4148 Diode |
| FI01 | 203.009.50 | 40M4HZ Filter LA7x7 | 40M4HZ Filter | 40M4HZ Filtre |
| FI02 | 103.192.60 | 38M9HZ Filter LA7x7 | 38M9HZ Filter | 38M9HZ Filtre |
| FI10 | 104.532.80 | OFWG3969M Oberflächenwellenfilter | Surface acoustic wave filter | Filtre a onde de surface |
| FI20 | 102.686.90 | OFWG9353M Oberflächenwellenfilter | Surface acoustic wave filter | Filtre a onde de surface |
| FI20 | 103.541.10 | OFWK9354M Oberflächenwellenfilter | Surface acoustic wave filter | Filtre a onde de surface |
| FI30 | 103.485.70 | 77M8HZ Filter LA7x7 | 77M8HZ Filter | 77M8HZ Filtre |
| FI40 | 103.193.50 | 6M6HZ Filter LA7x7 | 6M6HZ Filter | 6M6HZ Filtre |
| FI40 | 103.359.60 | 5M5HZ Filter LA7x7 | 5M5HZ Filter | 5M5HZ Filtre |
| FP01 | 102.467.50 S | 2,5AT 250V Sicherung | 2,5A Fuse | 2,5A Fusible |
| GM01 | 101.324.10 | TFMK1330T IR-Empfänger stehend | TFMK1330T IC | TFMK1330T CI |
| IB01 | 102.314.40 | TEA5101B IC | TEA5101B IC | TEA5101B CI |
| IB01C | 102.954.80 | Montageclip 4 | Clip 4 | Agrafe 4 |
| IC01 | 203.357.50 | TDA4665 IC | TDA4665 IC | TDA4665 CI |
| IF01 | 150.534.40 | TDA8177 IC | TDA8177 IC | TDA8177 CI |
| IF01B | 610.424.00 | Silikonscheibe | Silicon plate | Rondelle silicone |
| IF01C | 102.942.20 | Montageclip 3 | Clip 3 | Agrafe 3 |
| IF02 | 102.645.10 | STV2145 IC | STV2145 IC | STV2145 CI |
| IH01 | 460.252.00 | UA7805CSP/MC7805 IC | UA7805CSP IC | UA7805CSP CI |

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| Pos. | Art.-Nr<br>Part No.<br>Code | | Bezeichnung | Part | Désignation |
|---|---|---|---|---|---|
| II50 | 103.361.30 | | TDA9811/V3 IC | TDA9811/V3 IC | TDA9811/V3 CI |
| IP01 | 104.522.20 | | TDA4605-3 IC | TDA4605-3 IC | TDA4605-3 CI |
| IP50 | 460.076.00 | | MC7812CT IC | IC, MC7812CT | CI, MC7812CT |
| IP60 | 103.373.70 | | 4N25TV Fotokoppler | 4N25TV Photo couplers | 4N25TV Photo coupleur |
| IP70 | 100.445.80 | | TDA8139 IC | TDA8139 IC | TDA8139 IC |
| IP70C | 102.954.80 | | Montageclip 4 | Clip 4 | Agrafe 4 |
| IP80 | 460.252.00 | | UA7805CSP/MC7805 IC | UA7805CSP IC | UA7805CSP CI |
| IP80C | 102.942.20 | | Montageclip 3 | Clip 3 | Agrafe 3 |
| IR01 | 104.443.50 | | ST9293J9B1 SOFT NS20 IC prog o.S. | ST9293J9B1/AIM IC | ST9293J9B1/AIM CI |
| IR01 | 300.721.80 | | ST92T93J9B1/AEP IC prog. m. S. | ST92T93J9B1/AEP IC | ST92T93J9B1/AEP CI |
| IR02 | 100.303.00 | | ST24C04/B1 IC SELBSTPROGR. | ST24C04/B1 IC | ST24C04/B1 CI |
| IR02 | 704.004.19 | | X24C04 IC | X24C04 IC | X24C04 CI |
| IS40 | 103.743.30 | | MSP3410B-PP-F7 IC | | CI MSP3410B-PP-F7 |
| IS40 | 103.792.90 | | MSP3400C-PP-C6 IC | MSP3400C-PP-C6 IC | MSP3400C-PP-C6 CI |
| IS80 | 102.811.50 | | TDA7263 IC | TDA7263 IC | TDA7263 CI |
| IS80C | 102.954.80 | | Montageclip 4 | Clip 4 | Agrafe 4 |
| IT01 | 102.588.10 | | SAA5281ZP/E IC | SAA5281ZP/E IC | SAA5281ZP/E CI |
| IV01 | 103.846.80 | | STV2118B IC CUT 5.1 | STV2118B IC | STV2118B CI |
| IV01 | 104.466.60 | | STV2116 IC CUT 5.1 | STV2116 IC | STV2116 CI |
| IX01 | 508.143.00 | | LA7221 IC | LA7221 IC | LA7221 CI |
| LB01 | 140.366.40 | | 10UH Spule SMD | 10UH Coil SMD | 10UH Bobine SMD |
| LF45 | 150.396.40 | | 10UH Drossel | 10UH Choke coil | 10UH Self |
| LI50 | 101.503.20 | | 27UH Spule | 27UH Coil | 27UH Self |
| LL05 | 104.525.20 | S | Diodensplit-Trafo M30 | Diode split transformer | Transformateur THT |
| LL05 | 104.525.30 | S | Diodensplit-Trafo M30 | Diode split transformer | Transformateur THT |
| LL05 | 104.525.40 | S | Diodensplit-Trafo M30 | Diode split transformer | Transformateur THT |
| LL10 | 100.626.10 | | 18U0H 10% Drossel | 18U0H 10% Choke coil | 18U0H 10% Self |
| LL10 | 104.779.30 | | 13U5H 4% Drossel | 13U5H 4% Choke coil | 13U5H 4% Self |
| LL19 | 100.681.30 | S | Treibertransformator | Driver transformer | Transformateur |
| LL22 | 100.926.90 | S | Kombi-Spule | Combi coil | Bobine |
| LL22 | 100.950.60 | S | Kombi-Spule | Combi coil | Bobine |
| LL26 | 508.732.54 | S | 30U5H Spule H-Linearität | 30U5H H-Linearity coil | 30U5H Bobine linearite |
| LP01 | 102.615.30 | S | 60MIH Filter TF-Mains | Line filter | Self de filtrage |
| LP06 | 140.366.40 | | 10UH Spule SMD | 10UH Coil SMD | 10UH Bobine SMD |
| LP16 | 103.605.80 | S | Trafo Schaltnetzteil SMT4 | Switched mode power transformer | Transformateur d'alimentation |
| LR02 | 140.366.40 | | 10UH Spule SMD | 10UH Coil SMD | 10UH Bobine SMD |
| LR16 | 140.366.40 | | 10UH Spule SMD | 10UH Coil SMD | 10UH Bobine SMD |
| LR26 | 150.401.10 | | 3U3H 10% Drossel | 3U3H 10% Choke coil | 3U3H 10% Self |
| LR28 | 150.401.10 | | 3U3H 10% Drossel | 3U3H 10% Choke coil | 3U3H 10% Self |
| LS10 | 150.401.80 | | 4U7H Drossel | 4U7H Choke coil | 4U7H Self |
| LS25 | 905.745.50 | | 4U7H 10% Drossel | 4U7H 10% Choke coil | 4U7H 10% Self |
| LS40 | 130.919.50 | | 15UH 10% Drossel | 15UH 10% Choke coil | 15UH 10% Self |
| LS41 | 130.919.50 | | 15UH 10% Drossel | 15UH 10% Choke coil | 15UH 10% Self |
| LV16 | 130.841.30 | | 2U7H 10% Drossel | 2U7H 10% Choke coil | 2U7H 10% Self |
| LV17 | 309.489.60 | | 2U2H 10% Drossel | 2U2H 10% Choke coil | 2U2H 10% Self |
| LV18 | 130.841.30 | | 2U7H 10% Drossel | 2U7H 10% Choke coil | 2U7H 10% Self |
| PI50 | 102.726.80 | | 22KR 30% Trimmwiderstand | 22KR 30% Trimmer resistor | 22KR 30% Resistance ajustable |

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| Pos. | Art.-Nr Part No. Code | | Bezeichnung | Part | Désignation |
|---|---|---|---|---|---|
| PP66 | 102.603.70 | | 4K7 Trimmwiderstand liegend | 4K7 Trimmer resistor | 4K7 Resistance ajustable |
| QC01 | 100.877.10 | | 4M433619HZ Quarz | 4M433619HZ Crystal | 4M433619HZ Quartz |
| QC02 | 100.877.20 | | 3M579545HZ Quarz | 3M579545HZ Crystal | 3M579545HZ Quartz |
| QR01 | 102.544.30 | | 8M0HZ Quarz | 8M0HZ Crystal | 8M0HZ Quartz |
| QS40 | 103.346.70 | | 18M432HZ Quarz | 18M432Hz Crystal | 18M432Hz Quartz |
| QT01 | 102.541.20 | | 27MHZ Quarz | 27MHZ Crystal | 27MHZ Quartz |
| QV01 | 480.237.00 | | CSB503B Keramikfilter | CSB503B Ceramic filter | CSB503B Filtre ceramice |
| RB01 | 101.218.80 | | 1K5 0,5W 5% Widerstand | 1K5 0,5W 5% Resistor agglom. | 1K5 0,5W 5% Resistance |
| RB04 | 101.218.80 | | 1K5 0,5W 5% Widerstand | 1K5 0,5W 5% Resistor agglom. | 1K5 0,5W 5% Resistance |
| RB06 | 204.715.00 | S | 10R 0,4W 5% Sicherheitswiderstand | 10R 0,4W 5% Fusible resistor | 10R 0,4W 5% Résistance fusible |
| RB16 | 150.098.50 | S | 2K2 0,3W 5% Sicherheitswiderstand | 2K2R 0,3W 5% Fusible resistor | 2K2R 0,3W 5% Résistance fusible |
| RB24 | 804.362.30 | | 82K 0,5W 5% Widerstand | 82K 0,5W 5% Resistor agglom. | 82K 0,5W 5% Resistance |
| RB31 | 101.218.80 | | 1K5 0,5W 5% Widerstand | 1K5 0,5W 5% Resistor agglom. | 1K5 0,5W 5% Resistance |
| RB44 | 804.362.30 | | 82K 0,5W 5% Widerstand | 82K 0,5W 5% Resistor agglom. | 82K 0,5W 5% Resistance |
| RB51 | 101.218.80 | | 1K5 0,5W 5% Widerstand | 1K5 0,5W 5% Resistor agglom. | 1K5 0,5W 5% Resistance |
| RB64 | 804.362.30 | | 82K 0,5W 5% Widerstand | 82K 0,5W 5% Resistor agglom. | 82K 0,5W 5% Resistance |
| RB71 | 101.218.80 | | 1K5 0,5W 5% Widerstand | 1K5 0,5W 5% Resistor agglom. | 1K5 0,5W 5% Resistance |
| RF11 | 150.225.60 | S | 1R5 0,5W 5% Sicherheitswiderstand | 1R5 0,5W 5% Fusible resistor | 1R5 0,5W 5% Resistance fusible |
| RF12 | 101.481.60 | | 1R 0,7W 5% Metalloxydwiderstand | 1R 0,7W 5% Metal oxide resistor | 1R 0,7W 5% Resistance metallique |
| RF15 | 108.833.00 | S | 10R 0,5W 5% Sicherheitswiderstand | 10R 0,5W 5% Fusible resistor | 10R 0,5W 5% Résistance fusible |
| RF20 | 102.337.20 | | 220R 0,7W 1% Metallfilmwiderstand | 220R 0,7W 1% Metal film resistor | 220R 0,7W 1% Resistance metall. |
| RH01 | 130.015.40 | | 22KR 2W 5% Metalloxydwiderstand | 22KR 2W 5% Metal oxide resistor | 22KR 2W 5% Resistance metallique |
| RL10 | 102.332.20 | | 47R 0,5W 5% Widerstand | 47R 0,5W 5% Resistor agglom. | 47R 0,5W 5% Resistance |
| RL11 | 102.262.80 | S | 15R 0,5W 5% Sicherheitswiderstand | 15R 0,5W 5% Fusible resistor | 15R 0,5W 5% Resistance fusible |
| RL12 | 103.391.80 | S | 2R2 0,5W 5% Sicherheitswiderstand | 2R2 0,5W 5% Fusible resistor | 2R2 0,5W 5% Résistance fusible |
| RL13 | 104.496.90 | S | 0R22 0,5W +10% Sicherheitswiderstand | 0R22 0,5W +10% Fusible resistor | 0R22 0,5W +10% Resistance fusible |
| RL13 | 130.632.20 | S | 0R22 0,7W +10% Sicherheitswiderstand | 0R22 0,7W +10% Fusible resistor | 0R22 0,7W +10% Resistance fusible |
| RL25 | 600.226.00 | S | 10K 0,5W 5% Sicherheitswiderstand | 10K 0,5W 5% Fusible resistor | 10K 0,5W 5% Résistance fusible |
| RL26 | 103.938.70 | | 1KR 0,5W 10% Metalloxydwiderstand | 1KR 0,5W 10% Metal oxide resistor | 1KR 0,5W 10% Resistance metall. |
| RL32 | 150.228.30 | | 33R 2W 5% Metalloxydwiderstand | 33R 2W 5% Metal oxide resistor | 33R 2W 5% Resistance metallique |
| RL47 | 202.615.10 | S | 2R7 0,5W 5% Sicherheitswiderstand | 2R7 0,5W 5% Fusible resistor | 2R7 0,5W 5% Resistance fusible |
| RL90 | 103.547.20 | | 432K 0,125W 1% Metallfilmwiderstand | 432K 0,125W 1% Metal film resistor | 432K 0,125W 1% Resistance metall. |
| RP01 | 102.838.40 | | 2R7 2,5W 5% Drahtwiderstand | 2R7 2,5W 5% Wire resistor | 2R7 2,5W 5% Resistance bobine |
| RP03 | 300.934.00 | S | 25R PTC-Widerstand | 25R PTC resistor | 25R Resistance CTP |
| RP13 | 103.791.40 | | 270R 2,5W 5% Drahtwiderstand | 270R 2,5W 5% Wire resistor | 270R 2,5W 5% Resistance bobine |
| RP28 | 130.841.50 | | 100UH 10% Drossel | 100UH 10% Choke coil | 100UH 10% Self |
| RP32 | 150.095.80 | S | 10R 0,3W 5% Sicherheitswiderstand | 10R 0,3W 5% Fusible resistor | 10R 0,3W 5% Resistance fusible |
| RP40 | 150.098.70 | S | 2R2 0,3W 5% Sicherheitswiderstand | 2R2 0,3W 5% Fusible resistor | 2R2 0,3W 5% Résistance fusible |
| RP49 | 150.319.50 | | 10MR 0,7W 5% Schichtwiderstand | 10MR 0,7W 5% Film resistor | 10MR 0,7W 5% Resistance a c. |
| RP50 | 103.791.50 | | 150R 2,5W 5% Drahtwiderstand | 150R 2,5W 5% Wire resistor | 150R 2,5W 5% Resistance bobine |
| RS12 | 150.096.60 | S | 18R 0,3W 5% Sicherheitswiderstand | 18R 0,3W 5% Fusible resistor | 18R 0,3W 5% Resistance fusible |
| RS87 | 150.100.20 | S | 4R7 0,3W 5% Sicherheitswiderstand | 4R7 0,3W 5% Fusible resistor | 4R7 0,3W 5% Résistance fusible |
| RS88 | 150.100.20 | S | 4R7 0,3W 5% Sicherheitswiderstand | 4R7 0,3W 5% Fusible resistor | 4R7 0,3W 5% Résistance fusible |
| RX14 | 150.095.80 | S | 10R 0,3W 5% Sicherheitswiderstand | 10R 0,3W 5% Fusible resistor | 10R 0,3W 5% Resistance fusible |
| RX32 | 150.095.80 | S | 10R 0,3W 5% Sicherheitswiderstand | 10R 0,3W 5% Fusible resistor | 10R 0,3W 5% Resistance fusible |
| SM01 | 103.717.10 | S | Schutzkappe Netzschalter | Mains switch protection cap | Capot contacteur secteur |
| SM01 | 103.879.50 | S | Netzschalter | Push switch | Commutateur poussoir |
| SM02 | 300.111.00 | | Taktschalter | Tact switch | Interrupteur de cadence |
| SM03 | 300.111.00 | | Taktschalter | Tact switch | Interrupteur de cadence |

# Ersatzteile · Spare parts list · Liste de pièces de rechange · Lista parti di ricambio Lista de piezas de recambio

**Wichtig:** Bei Ersatzteilbestellungen bitte unbedingt die entsprechende Bestellnummer angeben!
**N. B.:** When demanding Spare Parts it is absolutely necessary to quote the corresponding part number!
**Important:** Lors d'une commande de pièces de rechange, prière d'indiquer et tout cas le numéro de la pièce!
**Importante:** Ordinare sempre con il numero correspondenti di codice!
**Importante:** Pedir siempre los recambios con el numero correspondiente codigo!

| Pos. | Art.-Nr Part No. Code | Bezeichnung | Part | Désignation |
|---|---|---|---|---|
| SM04 | 300.111.00 | Taktschalter | Tact switch | Interrupteur de cadence |
| SM05 | 300.111.00 | Taktschalter | Tact switch | Interrupteur de cadence |
| TB18 | 160.011.10 | BC558B Transistor | BC558B Transistor | BC558B Transistor |
| TF29 | 160.009.30 | BC548B Transistor | BC548B Transistor | BC548B Transistor |
| TI10 | 160.070.30 | DTC144EK Transistor | DTC144EK Transistor | DTC144EK Transistor |
| TI20 | 160.058.60 | BF799 Transistor SMD | BF799 Transistor SMD | BF799 Transistor SMD |
| TI70 | 450.617.85 | BC848/B Transistor SMD | BC848/B Transistor | BC848/B Transistor |
| TL19 | 104.011.10 | BUH516TH16 Transistor | BUH516TH16 Transistor | BUH516TH16 Transistor |
| TL19C | 102.548.30 | Montageclip | Clip metal | Agrafe |
| TL30 | 160.009.30 | BC548B Transistor | BC548B Transistor | BC548B Transistor |
| TL31 | 450.014.66 | BC337-40 Transistor | BC337-40 Transistor | BC337-40 Transistor |
| TL41 | 450.493.00 | BD681 Transistor | BD681 Transistor | BD681 Transistor |
| TL41B | 610.424.00 | Silikonscheibe | Silicon plate | Rondelle silicone |
| TL41C | 102.942.10 | Montageclip 2 | Clip 2 | Agrafe 2 |
| TL60 | 450.617.85 | BC848/B Transistor SMD | BC848/B Transistor | BC848/B Transistor |
| TL61 | 160.063.30 | BC858B Transistor SMD | BC858B Transistor SMD | BC858B Transistor SMD |
| TP16 | 102.375.50 | STP6NA60FI Trans.PWR-SWITCH | STP6NA60FI Trans.PWR-SWITCH | STP6NA60FI Trans.PWR-SWITCH |
| TP16C | 102.942.20 | Montageclip 3 | Clip 3 | Agrafe 3 |
| TP22 | 450.014.66 | BC337-40 Transistor | BC337-40 Transistor | BC337-40 Transistor |
| TP40 | 102.599.10 | BTB06-600C TRIAC Transistor | BTB06-600C TRIAC Transistor | BTB06-600C TRIAC Transistor |
| TP48 | 160.063.30 | BC858B Transistor SMD | BC858B Transistor SMD | BC858B Transistor SMD |
| TP60 | 160.011.10 | BC558B Transistor | BC558B Transistor | BC558B Transistor |
| TP61 | 160.011.10 | BC558B Transistor | BC558B Transistor | BC558B Transistor |
| TP91 | 450.617.85 | BC848/B Transistor SMD | BC848/B Transistor | BC848/B Transistor |
| TP96 | 160.063.30 | BC858B Transistor SMD | BC858B Transistor SMD | BC858B Transistor SMD |
| TR01 | 160.063.00 | BC848C Transistor SMD | BC848C Transistor SMD | BC848C Transistor SMD |
| TR02 | 160.063.00 | BC848C Transistor SMD | BC848C Transistor SMD | BC848C Transistor SMD |
| TS20 | 450.617.85 | BC848/B Transistor SMD | BC848/B Transistor | BC848/B Transistor |
| TS81 | 450.617.85 | BC848/B Transistor SMD | BC848/B Transistor | BC848/B Transistor |
| TS90 | 110.707.70 | BC847B Transistor SMD | BC847B Transistor | BC847B Transistor |
| TT01 | 160.063.00 | BC848C Transistor SMD | BC848C Transistor SMD | BC848C Transistor SMD |
| TV62 | 450.014.66 | BC337-40 Transistor | BC337-40 Transistor | BC337-40 Transistor |
| TX01 | 450.617.85 | BC848/B Transistor SMD | BC848/B Transistor | BC848/B Transistor |
| TX10 | 160.009.30 | BC548B Transistor | BC548B Transistor | BC548B Transistor |
| TX30 | 160.011.10 | BC558B Transistor | BC558B Transistor | BC558B Transistor |
| TX31 | 450.617.85 | BC848/B Transistor SMD | BC848/B Transistor | BC848/B Transistor |
| TX55 | 450.617.85 | BC848/B Transistor SMD | BC848/B Transistor | BC848/B Transistor |
| TX56 | 450.617.85 | BC848/B Transistor SMD | BC848/B Transistor | BC848/B Transistor |
| - | 103.700.30 | Hochspannungskabel 600mm rot | High tension cable red | Cable a haute tension |
| - | 103.716.60 | Fokuskabel 460mm rt | Focus cable 460mm rt | Cable focus 460mm rt |
| - | 100.005.80 | Halter PSB | Holder PSB | Support PSB |
| - | 102.856.90 | Halter Abschirmblech ICC10 | Holder Shielding | Support |
| - | 251.142.20 | Chassisrahmen TX92 | Chassis frame | Chassis plastique |
| - | 251.200.40 | Chassisrahmen TX92 | Chassis frame | Chassis plastique |

# ABBREVIATIONS - ABREVIATIONS - ABKÜRZUNGEN - ABBREVIAZIONI - ABREVIACIONES

| | |
|---|---|
| ● **AF** | AUDIO FREQUENCY<br>**FREQUENCE AUDIO** |
| ● **BCL** | BEAM CURRENT INFORMATION<br>**INFORMATION COURANT DE FAISCEAU** |
| ● **CVBS** | COMPOSITE VIDEO / LUMINANCE SIGNAL<br>**SIGNAL VIDEO COMPOSITE** |
| ● **DEGAUSS** | DEGAUSS SIGNAL<br>**SIGNAL DE COMMANDE DE DEMAGNETISATION** |
| ● **EWDRIVE** | DRIVE SIGNAL FOR EAST-WEST CORRECTION<br>**SIGNAL DE COMMANDE CORRECTION EST-OUEST** |
| ● **EWSENSE** | FEED BACK SIGNAL OF EAST-WEST CORRECTION<br>**SIGNAL DE CONTRE-REACTION EST-OUEST** |
| ● **FORMAT** | COMMAND USED TO CHANGE THE PICTURE FORMAT<br>**COMMANDE UTILISEE POUR CHANGER LE FORMAT** |
| ● **FB** | FAST BLANKING<br>**COMMUTATION RAPIDE** |
| ● **HDRV** | HORIZONTAL DEFLECTION SIGNAL<br>**SIGNAL DE COMMANDE DE BALAYAGE HORIZONTAL** |
| ● **+ H** | POSITION FLY BACK PULSE<br>**IMPULSION DE RETOUR LIGNE DE REFERENCE** |
| ● **HEATER** | HEATER VOLTAGE<br>**TENSION DE FILAMENT** |
| ● **I-CUT** | CUTOFF CURRENT<br>**COURANT DE CUTOFF** |
| ● **IR** | DATA FROM INFRARED RECEIVER<br>**DONNEES ISSUES DU RECEPTEUR INFRAROUGE** |
| ● **OSCIN / OSCOUT** | OSCILLATOR INPUT / OUTPUT<br>**ENTREE / SORTIE OSCILLATEUR** |
| ● **S** | VERTICAL S - CORRECTION<br>**CORRECTION S VERTICALE** |
| ● **SAFETY** | SIGNAL FOR DETECT. OF ERRORS ON THE DEFLEC.PART<br>**SIGNAL DE DETECT. D'ERREURS PARTIE DEFLECTION** |
| ● **SCL** | SERIAL CLOCK<br>**SIGNAL HORLOGE SERIE** |
| ● **SDA** | SERIAL DATA<br>**DONNEE SERIE** |
| ● **SIF** | SOUND IF<br>**FI SON** |
| ● **VTUNE** | TUNING VOLTAGE<br>**TENSION DU TUNER** |
| ● **VSYNC** | VERTICAL DEFLECTION SIGNAL<br>**SIGNAL DE COMMANDE BALAYAGE VERTICAL** |